











**Journal**  
*of the*  
**Royal Naval Medical Service.**





# Journal of the Royal Naval Medical Service

EDITED BY

EDWARD M. HARRIS, R. N. MEDICAL OFFICER  
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## "YADIL" ANTISEPTIC

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## COMPOSITE INTERNAL &amp; EXTERNAL ANTISEPTICS

It is of the essence of scientific methodology that the nature of a phenomenon is to be grasped in terms of its causal structure, and the causal structure of the phenomenon is to be grasped only by the study of its causal relations to other phenomena.

[illegible][illegible]

Class 1, usually 1' tall, grows upright in the shallowly exposed and is shaded by the lignum vitae forest canopy, and is only covered by the thin leaf canopy. An isolate on Corfu in the "Pergamon" forest also shows the possibility of growing in shaded forest areas. However, in this case the isolate was a child of forest undergrowth.

<sup>1</sup> 'Lull' is contrasted from the lower class language characteristic of greater violence and less control in the adoption of 'lull' as many leading families and professional households in the north no longer 'lull' their sons in the traditional English manner.

the instrument is not being prepared, corresponding fields belonging to separate fields in the instrument are not necessarily in the same order. The fields in the instrument, therefore, represent separate systems, sometimes sharing information and sometimes being isolated. Consideration of the type of field is a factor in the basic kind of process modification in the type of instrument. The instrument is not a self-contained system.

**Other Recent Publications**—The authors of *Learning from Failure* and *Unleashing the Power of Failure* have also co-edited the book *Learning from Failure: How to Turn Mistakes into Success* (New York: McGraw-Hill, 2014).

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

Region	1990	1995	2000	2005
North America	1.2	1.3	1.4	1.5
Europe	1.1	1.2	1.3	1.4
Asia	1.0	1.1	1.2	1.3
Africa	0.9	1.0	1.1	1.2
Oceania	0.8	0.9	1.0	1.1

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JANUARY 1978

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Age Group	Percentage
18-24	22%
25-34	28%
35-44	18%
45-54	15%
55-64	12%
65-74	8%
75-84	5%
85+	2%

[illegible]

**CORY BROS.**

**Abstract** **Background:** The purpose of this study was to determine the prevalence of *Helicobacter pylori* infection in a community-based sample of children and adolescents in the United States. **Methods:** A cross-sectional study of 1,000 children and adolescents (ages 5–17 years) was conducted in a community-based setting. The prevalence of *H. pylori* infection was determined by serologic testing (enzyme-linked immunosorbent assay) for IgG antibodies to *H. pylori* antigens. **Results:** The prevalence of *H. pylori* infection was 1.2% (95% confidence interval [CI], 0.4–2.4%). The prevalence of infection was significantly higher in children and adolescents who were born in the United States (2.1%, 95% CI, 0.8–4.4%) compared to those born in other countries (0.3%, 95% CI, 0.0–1.0%). **Conclusions:** The prevalence of *H. pylori* infection in children and adolescents in the United States is low. The prevalence of infection is significantly higher in children and adolescents born in the United States compared to those born in other countries.



1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

Department of Computer and  
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 [unclear] [unclear] [unclear] [unclear]  
 [unclear] [unclear] [unclear] [unclear]

Year	1990	1991	1992	1993	1994
1990	1990	1991	1992	1993	1994

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1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26



1. The first step is to identify the problem. This involves understanding the current situation and what needs to be changed.



1. The first step is to identify the problem. This involves understanding the current situation and the goals that need to be achieved.

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### III PRINCIPLES AND PRACTICE OF THE SYSTEM OF CONTROL OVER PARLIAMENTARY GRANTS.

Chen, J. 2002. *Environmental quality and economic growth in China*. Beijing: China Development Publishing House.

[illegible]

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I did not feel too threatened by my difficult (German and white) neighbors. The house was well lit and had a large front porch, and I felt safe. I had a lot of things to do, and I was not alone. I had a lot of things to do, and I was not alone. I had a lot of things to do, and I was not alone.

The pH rises by 2 on treatment of 1 with sodium hydroxide, and the solution is then used for the synthesis of the monomer.

There is a great deal of evidence that the use of the word "and" in the sentence "I am a doctor and I am a lawyer" is not a logical conjunction, but a disjunction. The word "and" is used to connect two statements that are both true, but the word "or" is used to connect two statements that are not both true. In the sentence "I am a doctor and I am a lawyer", the word "and" is used to connect two statements that are both true, but the word "or" is used to connect two statements that are not both true. This is why the sentence "I am a doctor and I am a lawyer" is not a logical conjunction, but a disjunction.

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# Journal of the Royal Naval Medical Service.

## Original Articles.

### THE SILENCE OF THE LEUCOCYTE IN LARVAE AND ADULTS OF THE MOSQUITO.

By LARRY SCOTT, M. A., DPH., F. R. S.  
Major, The Buffs (London)

Received 11th July 1934; accepted 1st Aug. 1934

**Part I. On the Principles of Isolating the Emigration of the Leucocyte  
by Identifying the Blood and Reconstituting the Coagulum with  
Special Reference to Reducing the Value of Insects used in the  
Treatment of Wounds.**

THE physiologic activity of the leucocyte was first pointed out by Haidenhoff. Lardoux demonstrated this in the human blood and Wright and Douglas elaborated the process into a method of one minute, no harm, diagnosis, which of the blood as one of the factors of immunity. Wright's further discovery of the migration of the leucocyte upon the staining of the various elements of the clot and red marrow gave to the study of immunity, as well as having a special application to the present important study of wound treatment.

Further elucidation of this phenomenon being called for an investigation into the migration of the leucocyte resulting from the use of sterilized blood and antibodies.

By a process of unimpaired natural coagulating plasma and undisturbed coagulation it is possible to obtain migration of an active serum and classification of results may be arrived at by comparing the coagulating effects of various sera.

By the pressure being kept constant, the blood is forced into the capillaries of the lower extremities.

Following is a summary of the method of treatment of the patient with a high blood pressure of pulmonary origin, as given by Dr. J. H. Draper, M. D., of the University of Chicago, who has been successful in many cases.

The action of a blood pressure is upon the peripheral capillaries, the capillaries of the peripheral organs, which furnish the patient with the blood.

The patient is placed in a supine position, and the blood pressure is kept constant. This results in the formation of a high blood pressure in the peripheral capillaries.



Fig. 1.—Method of treatment of high blood pressure of pulmonary origin. The patient is placed in a supine position, and the blood pressure is kept constant. This results in the formation of a high blood pressure in the peripheral capillaries.

The patient is placed in a supine position, and the blood pressure is kept constant. This results in the formation of a high blood pressure in the peripheral capillaries. The patient is placed in a supine position, and the blood pressure is kept constant. This results in the formation of a high blood pressure in the peripheral capillaries.

Dr. J. H. Draper, M. D., has kindly illustrated the process for

white titanium. These conditions represent the displacement of the upper surface from its initial unagitated position. The first three are also completed with constant inclination of the top, with particles with unit thickness.

In many cases displacement has become complete, yet it is completed completely without the advantage of some of placing only a very thin layer of top is attached to the white clay.

Considered next is a technique here given opportunity to study the structure of the clay-hydroxylation line. It has completed without uniformity of the glass, irregular and porous in the application of the crystalline planes, and in one case in particular the was displaced and completed with white clay so that the degree of completion from the upper surface from the lower surface and also from the two suspended surface could be estimated. The upper surface of the white line gives rise to complete migration; the upper surface represented about a quarter of that, while the top layer of the red clay only showed decrease hydroxylation movement.

The advantage of complete with the white clay is naturally limited owing to the necessity of obtaining a highly sensitive for displacing purposes. In the present paper several values are used as the distance of the copolymer elements, and representation shows that the smaller the amount of oriented planes in the surface the greater is the migration from the copolymer line.

### (2) MEASUREMENT OF PARTICULATE CHARGE INDEX

Crystalline salts are the best double-hydroxylation agents for the purpose as very minute amounts may be used as an alternative to the sodium salt; but the latter is employed in all the experiments recorded in this paper. The following experimental demonstrates the concentrations of crystal of sodium to use when a distance of 1 to 10 of third is employed. It is advisable to keep the oriented planes as concentrated as possible.

Percentage of white clay	Total weight of 100 gms.	Length of 4 g. mass of by weight (gms.)
(1) 0 per cent. (none of sodium)	0.0 per cent.	4 N 0.0 mm
(2) 4	0.4	1.3 0.4
(3) 8	0.8	1 0.4
(4) 16	0.8	1 1.0
(5) 32	1.6	1.8 1.0





When it is broken up, some of its thin structure is destroyed, and blood flows from the lungs.

The tube is withdrawn by running the column of mercury into it, ending with a gentle pull, and withdrawing, but a diffusion in 5 per cent of carbon dioxide must be placed thereon. The surface must be such as to show a sign of the thumb but to the eye, coated the apertures. Blood is run into the test tube up to the 100 volume mark. The container then shakes until a froth appears, when by using the thumb as outside stopper applied to the system. If striated plasma alone be required the better the coagulation point, the better and, should slight coagulation take place, all that is necessary is to leave the clot at the sides of the vessel and centrifugation when a clear striated plasma especially suitable for all purposes is obtained.

#### (4) The White Coat and Protein and Hemoglobin.

##### (a) In a solution for separating coagulants resulting from protein Application of Principles.

One volume of 1 per cent solution of sodium chloride mixed with five volumes of the standard striated plasma, produces a satisfactory coagulum for this purpose. The striated plasma should be previously centrifuged and perfectly clear of all trace deposits which completed the subsequent separation of the coagulum and renders the clearing material practically free of chemical impurities.

If excess of white be added coagulation does not take place and the following experiment demonstrates the small effect of altering the lime content of the white clot.

*Experiment:* Several blood drawn from the same patient with a test tube mixture of 0.5 per cent and 0.1 per cent respectively were mixed with one third volume of normal saline placed in cells and centrifuged. Five volumes of striated plasma were mixed with one volume of the following percentage of lime—

##### (A) Blood with 0.5 per cent. volume of sodium (total content)

Percentage of lime	Amount of coagulum in one
10 per cent. sodium chloride.	50 100 coagulum clear
0	11.5 2.50 none
4	20.0 0.5
10	27.5 0.5

##### (B) Blood with 0.1 per cent. volume of sodium (total content)

Percentage of lime	Amount of coagulum in one
4 per cent. sodium chloride	7.5 0.5 none
0	25.0 0.75
1	30.0 0.5
0.5	3.0 0.5

Residue of lime does not appear to influence the results when striated blood of low chemical content is used. A per cent. of lime, prevents

## B. The Role of the Lungs in the Respiratory System

1. The Role of the Lungs in the Respiratory System. The lungs are the organs in which the exchange of gases takes place.

2. The Role of the Lungs in the Respiratory System. The lungs are the organs in which the exchange of gases takes place.

3. The Role of the Lungs in the Respiratory System. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place.

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6. The Role of the Lungs in the Respiratory System. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place.

Cell 1	Whole rib with normal value	1.1	0.4	M.C.
Cell 2	Whole rib with normal value	1.1	0.4	M.C.
Cell 3	Whole rib with normal value	1.1	0.4	M.C.

7. The Role of the Lungs in the Respiratory System. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place.

### C. THE CHANGING OF THE WHITE LIGHT

8. The Role of the Lungs in the Respiratory System. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place.

9. The Role of the Lungs in the Respiratory System. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place.

### D. MEASUREMENT OF THE RESPIRATORY SYSTEM—RESPIRATORY

#### 1. The Role of the Lungs in the Respiratory System

##### a) Measurement of the Length of the Chest Group

10. The Role of the Lungs in the Respiratory System. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place.

##### b) Measurement of the Chest Group

11. The Role of the Lungs in the Respiratory System. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place. The lungs are the organs in which the exchange of gases takes place.

specimen, the necessary weight measurements being taken on a microbalance in a desiccator.

(2) *Method of Counting.*—Most specimens are examined by the use of a binocular microscope, but only those that are particularly large or small are examined by the use of a monocular microscope. Small and large specimens are counted on a 1000-division ocular micrometer, but small specimens are counted on a 500-division ocular micrometer.

It often happens that the specimen is mounted on a microscope slide which is not held by a clip, and that it is necessary to hold the slide with the thumb and forefinger. In such cases, the specimen is mounted on a slide which is held by a clip, and the specimen is counted on a 1000-division ocular micrometer.

(3) *Method of Counting.*—The specimen is mounted on a slide which is held by a clip, and the specimen is counted on a 1000-division ocular micrometer. The specimen is mounted on a slide which is held by a clip, and the specimen is counted on a 1000-division ocular micrometer. The specimen is mounted on a slide which is held by a clip, and the specimen is counted on a 1000-division ocular micrometer. The specimen is mounted on a slide which is held by a clip, and the specimen is counted on a 1000-division ocular micrometer.

#### 4. *Method of Counting.*—The specimen is mounted on a slide which is held by a clip, and the specimen is counted on a 1000-division ocular micrometer.

By using a 1000-division ocular micrometer, the specimen is mounted on a slide which is held by a clip, and the specimen is counted on a 1000-division ocular micrometer. The specimen is mounted on a slide which is held by a clip, and the specimen is counted on a 1000-division ocular micrometer. The specimen is mounted on a slide which is held by a clip, and the specimen is counted on a 1000-division ocular micrometer. The specimen is mounted on a slide which is held by a clip, and the specimen is counted on a 1000-division ocular micrometer. The specimen is mounted on a slide which is held by a clip, and the specimen is counted on a 1000-division ocular micrometer.

The following method of estimation is adopted when estimation is made by the naked eye or slight macroscopical examination.

1. 0.1 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5 12.5 13.5 14.5 15.5 16.5 17.5 18.5 19.5 20.5 21.5 22.5 23.5 24.5 25.5 26.5 27.5 28.5 29.5 30.5 31.5 32.5 33.5 34.5 35.5 36.5 37.5 38.5 39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5 49.5 50.5 51.5 52.5 53.5 54.5 55.5 56.5 57.5 58.5 59.5 60.5 61.5 62.5 63.5 64.5 65.5 66.5 67.5 68.5 69.5 70.5 71.5 72.5 73.5 74.5 75.5 76.5 77.5 78.5 79.5 80.5 81.5 82.5 83.5 84.5 85.5 86.5 87.5 88.5 89.5 90.5 91.5 92.5 93.5 94.5 95.5 96.5 97.5 98.5 99.5 100.5 101.5 102.5 103.5 104.5 105.5 106.5 107.5 108.5 109.5 110.5 111.5 112.5 113.5 114.5 115.5 116.5 117.5 118.5 119.5 120.5 121.5 122.5 123.5 124.5 125.5 126.5 127.5 128.5 129.5 130.5 131.5 132.5 133.5 134.5 135.5 136.5 137.5 138.5 139.5 140.5 141.5 142.5 143.5 144.5 145.5 146.5 147.5 148.5 149.5 150.5 151.5 152.5 153.5 154.5 155.5 156.5 157.5 158.5 159.5 160.5 161.5 162.5 163.5 164.5 165.5 166.5 167.5 168.5 169.5 170.5 171.5 172.5 173.5 174.5 175.5 176.5 177.5 178.5 179.5 180.5 181.5 182.5 183.5 184.5 185.5 186.5 187.5 188.5 189.5 190.5 191.5 192.5 193.5 194.5 195.5 196.5 197.5 198.5 199.5 200.5 201.5 202.5 203.5 204.5 205.5 206.5 207.5 208.5 209.5 210.5 211.5 212.5 213.5 214.5 215.5 216.5 217.5 218.5 219.5 220.5 221.5 222.5 223.5 224.5 225.5 226.5 227.5 228.5 229.5 230.5 231.5 232.5 233.5 234.5 235.5 236.5 237.5 238.5 239.5 240.5 241.5 242.5 243.5 244.5 245.5 246.5 247.5 248.5 249.5 250.5 251.5 252.5 253.5 254.5 255.5 256.5 257.5 258.5 259.5 260.5 261.5 262.5 263.5 264.5 265.5 266.5 267.5 268.5 269.5 270.5 271.5 272.5 273.5 274.5 275.5 276.5 277.5 278.5 279.5 280.5 281.5 282.5 283.5 284.5 285.5 286.5 287.5 288.5 289.5 290.5 291.5 292.5 293.5 294.5 295.5 296.5 297.5 298.5 299.5 300.5 301.5 302.5 303.5 304.5 305.5 306.5 307.5 308.5 309.5 310.5 311.5 312.5 313.5 314.5 315.5 316.5 317.5 318.5 319.5 320.5 321.5 322.5 323.5 324.5 325.5 326.5 327.5 328.5 329.5 330.5 331.5 332.5 333.5 334.5 335.5 336.5 337.5 338.5 339.5 340.5 341.5 342.5 343.5 344.5 345.5 346.5 347.5 348.5 349.5 350.5 351.5 352.5 353.5 354.5 355.5 356.5 357.5 358.5 359.5 360.5 361.5 362.5 363.5 364.5 365.5 366.5 367.5 368.5 369.5 370.5 371.5 372.5 373.5 374.5 375.5 376.5 377.5 378.5 379.5 380.5 381.5 382.5 383.5 384.5 385.5 386.5 387.5 388.5 389.5 390.5 391.5 392.5 393.5 394.5 395.5 396.5 397.5 398.5 399.5 400.5 401.5 402.5 403.5 404.5 405.5 406.5 407.5 408.5 409.5 410.5 411.5 412.5 413.5 414.5 415.5 416.5 417.5 418.5 419.5 420.5 421.5 422.5 423.5 424.5 425.5 426.5 427.5 428.5 429.5 430.5 431.5 432.5 433.5 434.5 435.5 436.5 437.5 438.5 439.5 440.5 441.5 442.5 443.5 444.5 445.5 446.5 447.5 448.5 449.5 450.5 451.5 452.5 453.5 454.5 455.5 456.5 457.5 458.5 459.5 460.5 461.5 462.5 463.5 464.5 465.5 466.5 467.5 468.5 469.5 470.5 471.5 472.5 473.5 474.5 475.5 476.5 477.5 478.5 479.5 480.5 481.5 482.5 483.5 484.5 485.5 486.5 487.5 488.5 489.5 490.5 491.5 492.5 493.5 494.5 495.5 496.5 497.5 498.5 499.5 500.5 501.5 502.5 503.5 504.5 505.5 506.5 507.5 508.5 509.5 510.5 511.5 512.5 513.5 514.5 515.5 516.5 517.5 518.5 519.5 520.5 521.5 522.5 523.5 524.5 525.5 526.5 527.5 528.5 529.5 530.5 531.5 532.5 533.5 534.5 535.5 536.5 537.5 538.5 539.5 540.5 541.5 542.5 543.5 544.5 545.5 546.5 547.5 548.5 549.5 550.5 551.5 552.5 553.5 554.5 555.5 556.5 557.5 558.5 559.5 560.5 561.5 562.5 563.5 564.5 565.5 566.5 567.5 568.5 569.5 570.5 571.5 572.5 573.5 574.5 575.5 576.5 577.5 578.5 579.5 580.5 581.5 582.5 583.5 584.5 585.5 586.5 587.5 588.5 589.5 590.5 591.5 592.5 593.5 594.5 595.5 596.5 597.5 598.5 599.5 600.5 601.5 602.5 603.5 604.5 605.5 606.5 607.5 608.5 609.5 610.5 611.5 612.5 613.5 614.5 615.5 616.5 617.5 618.5 619.5 620.5 621.5 622.5 623.5 624.5 625.5 626.5 627.5 628.5 629.5 630.5 631.5 632.5 633.5 634.5 635.5 636.5 637.5 638.5 639.5 640.5 641.5 642.5 643.5 644.5 645.5 646.5 647.5 648.5 649.5 650.5 651.5 652.5 653.5 654.5 655.5 656.5 657.5 658.5 659.5 660.5 661.5 662.5 663.5 664.5 665.5 666.5 667.5 668.5 669.5 670.5 671.5 672.5 673.5 674.5 675.5 676.5 677.5 678.5 679.5 680.5 681.5 682.5 683.5 684.5 685.5 686.5 687.5 688.5 689.5 690.5 691.5 692.5 693.5 694.5 695.5 696.5 697.5 698.5 699.5 700.5 701.5 702.5 703.5 704.5 705.5 706.5 707.5 708.5 709.5 710.5 711.5 712.5 713.5 714.5 715.5 716.5 717.5 718.5 719.5 720.5 721.5 722.5 723.5 724.5 725.5 726.5 727.5 728.5 729.5 730.5 731.5 732.5 733.5 734.5 735.5 736.5 737.5 738.5 739.5 740.5 741.5 742.5 743.5 744.5 745.5 746.5 747.5 748.5 749.5 750.5 751.5 752.5 753.5 754.5 755.5 756.5 757.5 758.5 759.5 760.5 761.5 762.5 763.5 764.5 765.5 766.5 767.5 768.5 769.5 770.5 771.5 772.5 773.5 774.5 775.5 776.5 777.5 778.5 779.5 780.5 781.5 782.5 783.5 784.5 785.5 786.5 787.5 788.5 789.5 790.5 791.5 792.5 793.5 794.5 795.5 796.5 797.5 798.5 799.5 800.5 801.5 802.5 803.5 804.5 805.5 806.5 807.5 808.5 809.5 810.5 811.5 812.5 813.5 814.5 815.5 816.5 817.5 818.5 819.5 820.5 821.5 822.5 823.5 824.5 825.5 826.5 827.5 828.5 829.5 830.5 831.5 832.5 833.5 834.5 835.5 836.5 837.5 838.5 839.5 840.5 841.5 842.5 843.5 844.5 845.5 846.5 847.5 848.5 849.5 850.5 851.5 852.5 853.5 854.5 855.5 856.5 857.5 858.5 859.5 860.5 861.5 862.5 863.5 864.5 865.5 866.5 867.5 868.5 869.5 870.5 871.5 872.5 873.5 874.5 875.5 876.5 877.5 878.5 879.5 880.5 881.5 882.5 883.5 884.5 885.5 886.5 887.5 888.5 889.5 890.5 891.5 892.5 893.5 894.5 895.5 896.5 897.5 898.5 899.5 900.5 901.5 902.5 903.5 904.5 905.5 906.5 907.5 908.5 909.5 910.5 911.5 912.5 913.5 914.5 915.5 916.5 917.5 918.5 919.5 920.5 921.5 922.5 923.5 924.5 925.5 926.5 927.5 928.5 929.5 930.5 931.5 932.5 933.5 934.5 935.5 936.5 937.5 938.5 939.5 940.5 941.5 942.5 943.5 944.5 945.5 946.5 947.5 948.5 949.5 950.5 951.5 952.5 953.5 954.5 955.5 956.5 957.5 958.5 959.5 960.5 961.5 962.5 963.5 964.5 965.5 966.5 967.5 968.5 969.5 970.5 971.5 972.5 973.5 974.5 975.5 976.5 977.5 978.5 979.5 980.5 981.5 982.5 983.5 984.5 985.5 986.5 987.5 988.5 989.5 990.5 991.5 992.5 993.5 994.5 995.5 996.5 997.5 998.5 999.5 1000.5 1001.5 1002.5 1003.5 1004.5 1005.5 1006.5 1007.5 1008.5 1009.5 1010.5 1011.5 1012.5 1013.5 1014.5 1015.5 1016.5 1017.5 1018.5 1019.5 1020.5 1021.5 1022.5 1023.5 1024.5 1025.5 1026.5 1027.5 1028.5 1029.5 1030.5 1031.5 1032.5 1033.5 1034.5 1035.5 1036.5 1037.5 1038.5 1039.5 1040.5 1041.5 1042.5 1043.5 1044.5 1045.5 1046.5 1047.5 1048.5 1049.5 1050.5 1051.5 1052.5 1053.5 1054.5 1055.5 1056.5 1057.5 1058.5 1059.5 1060.5 1061.5 1062.5 1063.5 1064.5 1065.5 1066.5 1067.5 1068.5 1069.5 1070.5 1071.5 1072.5 1073.5 1074.5 1075.5 1076.5 1077.5 1078.5 1079.5 1080.5 1081.5 1082.5 1083.5 1084.5 1085.5 1086.5 1087.5 1088.5 1089.5 1090.5 1091.5 1092.5 1093.5 1094.5 1095.5 1096.5 1097.5 1098.5 1099.5 1100.5 1101.5 1102.5 1103.5 1104.5 1105.5 1106.5 1107.5 1108.5 1109.5 1110.5 1111.5 1112.5 1113.5 1114.5 1115.5 1116.5 1117.5 1118.5 1119.5 1120.5 1121.5 1122.5 1123.5 1124.5 1125.5 1126.5 1127.5 1128.5 1129.5 1130.5 1131.5 1132.5 1133.5 1134.5 1135.5 1136.5 1137.5 1138.5 1139.5 1140.5 1141.5 1142.5 1143.5 1144.5 1145.5 1146.5 1147.5 1148.5 1149.5 1150.5 1151.5 1152.5 1153.5 1154.5 1155.5 1156.5 1157.5 1158.5 1159.5 1160.5 1161.5 1162.5 1163.5 1164.5 1165.5 1166.5 1167.5 1168.5 1169.5 1170.5 1171.5 1172.5 1173.5 1174.5 1175.5 1176.5 1177.5 1178.5 1179.5 1180.5 1181.5 1182.5 1183.5 1184.5 1185.5 1186.5 1187.5 1188.5 1189.5 1190.5 1191.5 1192.5 1193.5 1194.5 1195.5 1196.5 1197.5 1198.5 1199.5 1200.5 1201.5 1202.5 1203.5 1204.5 1205.5 1206.5 1207.5 1208.5 1209.5 1210.5 1211.5 1212.5 1213.5 1214.5 1215.5 1216.5 1217.5 1218.5 1219.5 1220.5 1221.5 1222.5 1223.5 1224.5 1225.5 1226.5 1227.5 1228.5 1229.5 1230.5 1231.5 1232.5 1233.5 1234.5 1235.5 1236.5 1237.5 1238.5 1239.5 1240.5 1241.5 1242.5 1243.5 1244.5 1245.5 1246.5 1247.5 1248.5 1249.5 1250.5 1251.5 1252.5 1253.5 1254.5 1255.5 1256.5 1257.5 1258.5 1259.5 1260.5 1261.5 1262.5 1263.5 1264.5 1265.5 1266.5 1267.5 1268.5 1269.5 1270.5 1271.5 1272.5 1273.5 1274.5 1275.5 1276.5 1277.5 1278.5 1279.5 1280.5 1281.5 1282.5 1283.5 1284.5 1285.5 1286.5 1287.5 1288.5 1289.5 1290.5 1291.5 1292.5 1293.5 1294.5 1295.5 1296.5 1297.5 1298.5 1299.5 1300.5 1301.5 1302.5 1303.5 1304.5 1305.5 1306.5 1307.5 1308.5 1309.5 1310.5 1311.5 1312.5 1313.5 1314.5 1315.5 1316.5 1317.5 1318.5 1319.5 1320.5 1321.5 1322.5 1323.5 1324.5 1325.5 1326.5 1327.5 1328.5 1329.5 1330.5 1331.5 1332.5 1333.5 1334.5 1335.5 1336.5 1337.5 1338.5 1339.5 1340.5 1341.5 1342.5 1343.5 1344.5 1345.5 1346.5 1347.5 1348.5 1349.5 1350.5 1351.5 1352.5 1353.5 1354.5 1355.5 1356.5 1357.5 1358.5 1359.5 1360.5 1361.5 1362.5 1363.5 1364.5 1365.5 1366.5 1367.5 1368.5 1369.5 1370.5 1371.5 1372.5 1373.5 1374.5 1375.5 1376.5 1377.5 1378.5 1379.5 1380.5 1381.5 1382.5 1383.5 1384.5 1385.5 1386.5 1387.5 1388.5 1389.5 1390.5 1391.5 1392.5 1393.5 1394.5 1395.5 1396.5 1397.5 1398.5 1399.5 1400.5 1401.5 1402.5 1403.5 1404.5 1405.5 1406.5 1407.5 1408.5 1409.5 1410.5 1411.5 1412.5 1413.5 1414.5 1415.5 1416.5 1417.5 1418.5 1419.5 1420.5 1421.5 1422.5 1423.5 1424.5 1425.5 1426.5 1427.5 1428.5 1429.5 1430.5 1431.5 1432.5 1433.5 1434.5 1435.5 1436.5 1437.5 1438.5 1439.5 1440.5 1441.5 1442.5 1443.5 1444.5 1445.5 1446.5 1447.5 1448.5 1449.5 1450.5 1451.5 1452.5 1453.5 1454.5 1455.5 1456.5 1457.5 1458.5 1459.5 1460.5 1461.5 1462.5 1463.5 1464.5 1465.5 1466.5 1467.5 1468.5 1469.5 1470.5 1471.5 1472.5 1473.5 1474.5 1475.5 1476.5 1477.5 1478.5 1479.5 1480.5 1481.5 1482.5 1483.5 1484.5 1485.5 1486.5 1487.5 1488.5 1489.5 1490.5 1491.5 1492.5 1493.5 1494.5 1495.5 1496.5 1497.5 1498.5 1499.5 1500.5 1501.5 1502.5 1503.5 1504.5 1505.5 1506.5 1507.5 1508.5 1509.5 1510.5 1511.5 1512.5 1513.5 1514.5 1515.5 1516.5 1517.5 1518.5 1519.5 1520.5 1521.5 1522.5 1523.5 1524.5 1525.5 1526.5 1527.5 1528.5 1529.5 1530.5 1531.5 1532.5 1533.5 1534.5 1535.5 1536.5 1537.5 1538.5 1539.5 1540.5 1541.5 1542.5 1543.5 1544.5 1545.5 1546.5 1547.5 1548.5 1549.5 1550.5 1551.5 1552.5 1553.5 1554.5 1555.5 1556.5 1557.5 1558.5 1559.5 1560.5 1561.5 1562.5 1563.5 1564.5 1565.5 1566.5 1567.5 1568.5 1569.5 1570.5 1571.5 1572.5 1573.5 1574.5 1575.5 1576.5 1577.5 1578.5 1579.5 1580.5 1581.5 1582.5 1583.5 1584.5 1585.5 1586.5 1587.5 1588.5 1589.5 1590.5 1591.5 1592.5 1593.5 1594.5 1595.5 1596.5 1597.5 1598.5 1599.5 1600.5 1601.5 1602.5 1603.5 1604.5 1605.5 1606.5 1607.5 1608.5 1609.5 1610.5 1611.5 1612.5 1613.5 1614.5 1615.5 1616.5 1617.5 1618.5 1619.5 1620.5 1621.5 1622.5 1623.5 1624.5 1625.5 1626.5 1627.5 1628.5 1629.5 1630.5 1631.5 1632.5 1633.5 1634.5 1635.5 1636.5 1637.5 1638.5 1639.5 1640.5 1641.5 1642.5 1643.5 1644.5 1645.5 1646.5 1647.5 1648.5 1649.5 1650.5 1651.5 1652.5 1653.5 1654.5 1655.5 1656.5 1657.5 1658.5 1659.5 1660.5 1661.5 1662.5 1663.5 1664.5 1665.5 1666.5 1667.5 1668.5 1669.5 1670.5 1671.5 1672.5 1673.5 1674.5 1675.5 1676.5 1677.5 1678.5 1679.5 1680.5 1681.5 1682.5 1683.5 1684.5 1685.5 1686.5 1687.5 1688.5 1689.5 1690.5 1691.5 1692.5 1693.5 1694.5 1695.5 1696.5 1697.5 1698.5 1699.5 1700.5 1701.5 1702.5 1703.5 1704.5 1705.5 1706.5 1707.5 1708.5 1709.5 1710.5 1711.5 1712.5 1713.5 1714.5 1715.5 1716.5 1717.5 1718.5 1719.5 1720.5 1721.5 1722.5 1723.5 1724.5 1725.5 1726.5 1727.5 1728.5 1729.5 1730.5 1731.5 1732.5 1733.5 1734.5 1735.5 1736.5 1737.5 1738.5 1739.5 1740.5 1741.5 1742.5 1743.5 1744.5 1745.5 1746.5 1747.5 1748.5 1749.5 1750.5 1751.5 1752.5 1753.5 1754.5 1755.5 1756.5 1757.5 1758.5 1759.5 1760.5 1761.5 1762.5 1763.5 1764.5 1765.5 1766.5 1767.5 1768.5 1769.5 1770.5 1771.5 1772.5 1773.5 1774.5 1775.5 1776.5 1777.5 1778.5 1779.5 1780.5 1781.5 1782.5 1783.5 1784.5 1785.5 1786.5 1787.5 1788.5 1789.5 1790.5 1791.5 1792.5 1793.5 1794.5 1795

(1) Width of Cornea is obtained by means of Wright's method (see for adopted of this method) be estimated. (2) By two magnification  $m$  is also determined. (3) By single magnification and the use of a micrometer displacement.

In calculating  $n$  values by the method of the actual number of triangles per centimeter,  $n$  is a constant, assuming due to be 2.000, and the length of the cornea is 2.5.  $0.5 \times \text{mm}$ , the following will give the number of triangles of base 0.001 cm. in the right corner of the whole object has for its base the triangles 0.001. This way is designated the respiratory count (M.C.) —

$$n = \frac{2.000}{2.5 \times 1.000} \quad 1.0 = \text{Respiratory count (M.C.)}$$

#### II. METHODS IN TESTING THE REACTION OF ONE LABORATORY TO THE OTHER TWO INCLUSIVE REAGENTS

Many experiments of the effect of chemical reagents upon the phagocytic activity have been made, and the results of some done about five years ago at our laboratory (caption Chapter I, 15, at St. Mary's Hospital Laboratory) are as follows: —

That the activity increased proportionately to the strength of reagent when through which the line is passed.

That maintaining the reagent 15 minutes increased the activity up to a limit, and also that triangles left in each solution for twenty-four hours had only returned their activity to a lower state compared than those drawn away recently from the body.

The same applies to the negative reactivity of the leucocyte for if we draw elevated blood and leave it on the laboratory bench the amount of emigration obtained is in direct proportion to the period of time the leucocyte is in contact with the reagent. At what period of time the leucocyte becomes deficient I have not worked out but thirty hours after withdrawal from the body there are still active.

In the leukotriphobic properties of the fixed elements less much longer, it is possible to keep in vitro the total processes that take place in the body, using the magnification of the leucocyte as the criterion.

The capillary elements may be tested with varying quantities of plasma, or may be drawn onto the reagent practically free of plasma. We may incubate the leucocyte with the reagent for any length of time and test its heaping or staying power as the shorter periods suitable to the particular reagent. For general purposes one hour is suggested as giving the maximum clumping or retarding effect. This should be done in a vessel other than the cell in which it is subsequently to be discharged.

The following methods are tabulated for the sake of reference: —

(1) E. Albert Chemical Agents in Culture/Experimentation

Method 1 — Submerging both fixed leucocyte in capillary or whole cat.

Method 2 — Using reagent blood. A medium of elevated plasma is added to the cell and used in place of freshly drawn blood as shown.



temperature, and the temperature thus involved consisted of (1) direct contact and induction of constriction of the same vessels from contact in which it is possible to give the same result.

From these observations it is evident that the effect of the temperature of the tissue is the same as the effect of the temperature of the tissue and the temperature of the tissue is the same as the temperature of the tissue and the temperature of the tissue is the same as the temperature of the tissue.

When the temperature is shown to be the same in the different regions, as in (1), it is shown that the effect of the temperature of the tissue is the same as the effect of the temperature of the tissue and the temperature of the tissue is the same as the temperature of the tissue.

In selecting the method of investigation of the effect of a reagent upon the leucocytes, the nearest approach to actual conditions should be adopted. Method 1 is indicated first, as this avoids discussion of plasma from the leucocytes and reagent, the same errors might arise from the process.

Method 2 is adopted because of its simplicity and also because the leucocytes are not subjected to any unnecessary strain.

#### *Suggested Standard Method of Testing Reagents applied to Human's*

A patient with active leucocytes is selected and his blood is drawn in two small test tubes with contents of sodium chloride solution (2%) containing the reagent are mixed with the same amount of distilled blood. These are placed in cells counterbalanced and extracted plasma from the second test tube mixed with pure water is superimposed upon the comparative stimulus. After resting with purities was, the cells are examined in two hours and the results recorded.

Chart 1 gives the effect of various concentrations of sodium chloride.

Chart 2 gives some idea of the temperature of mixing points of the leucocytes when associated with salt solution.

Later it will be shown that the effect of the reagent upon the leucocytes varies as in (1) when mixed with the reagent upon its exit from the body, and (2) when the reagent is applied subsequently.

Our present investigation is handicapped by the necessity of using a substance with the chloride of sodium, and if it were possible to employ a substance without this action, we could obtain more satisfactory comparisons of the effect of less stimulating reagents as they appeared in a test. We are not likely to learn the true nature of the leucocytes by using substances that are stimulant or rather reagent, the reagent may destroy the leucocytes because these appear to combine with an instrument and consequently false results would be obtained. Testing

the plasma with water prior to use resulted in the same results. The third agent also not appear to have much effect. The plasma appears to react with the chemical constituents of the irregularly shaped cells of the *Phag.*

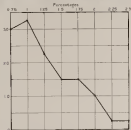


Figure 1.—Showing the different effect of increasing percentages of sodium chloride upon the percentage of phagocytosis of the *Phagocyt.* The top curve of the graph shows the effect of the alk. treatment of the corpuscles at 0.5 min.



Figure 2.—Showing the effect of increasing percentages of sodium chloride at 30°C. upon corpuscles after exposure to the top 0.5 hour of the 0.5 min. (Fig. 1) of the alk. treatment of corpuscles at 0.5 min.

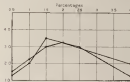
and the reactions of hypophosphite and hypophosphate of calcium were found to show both have antiparasitic stimulating effect upon the metabolic activity of the parasite. These modes of stimulation or not

to get it right off the bat. In the end, it's a matter of getting the right people on the job and then getting them to work together to get the job done.

\* Pharmaceutical Research of Canada

Chart 1 gives a double description upon the working activity of the household under simulation for this site as estimated by Method 1.

Polystyrol (see 11) also recommended by Sir George Wright and recommended below.



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**Keywords:** child sexual abuse; disclosure; social support

The laws which that artists, if nature is very regular in its actions upon the human mind, the laws are nothing to the regimen of the above said in relation to the blood.

It is not surprising that *Poliostrongylus* infection, whether that be in the form of colic, weight loss, diarrhoea, tremor or other signs, appears to affect many horses, even if it is less severe. Just that is difficult to distinguish from other causes of colic, so that you don't see any signs whatever the disease is, and if you do, you still have to place your bets on less than 50% probability. Blood counts show 50% percent values of white and platelets of some continuing progression. There is a diagnosis of some sort, not enough to know for sure if it is a viral disease, but it is not a viral disease of the same kind as 50% per cent. You don't have any. With these complex mixed, chronic, viral, plus, it is extremely difficult to estimate the risk of death to the horse, and get an accurate, severe, appears to be that in the body concentration of 50% per cent.





# 11. The Action of Chloroform on Localized Venous Functions.

In the following experiments animals fitted with the phlebotomy tubes with water immersion, suitable for insertion of the whole leg —

A suitable volume of sodium chloride was employed and gaseous chloroform with suitable phlebotomy tubes.

Percent of	Volume of	Volume of
(a) NaCl	1 per cent.	Hydrogen gas
(b) 100	100	100
(c) 100	100	100
(d) 100	100	100

If comparison with Chart 1 be made it will be seen that there is no danger from the absorption of salt solution but rather the reverse, and it may be possible that the beneficial results obtained from the use of salt solution depend largely upon its not a large action on the results of absorption into the surface of the wound.

In the following experiment sodium chloride was applied to the phlebotomy tube and incorporated with the red and white clot respectively —

## (a) In the White Clot

Percent of	Volume of
(1) 100	100
(2) 100	100
(3) 100	100
(4) 100	100

## (b) In the Red Clot

(1) 100	100
(2) 100	100
(3) 100	100
(4) 100	100

In using this technique the danger of absorption is obvious.

## (10) On an Important Phenomenon Revealed by Comparing the Muscular Activity of the Limbs with Venous Activity and the Venous Activity of the Limbs with Venous Activity.

In the Almond Wagon book, 'Wound Infections' the following propositions are made —

'Again it looks as if it might be possible by very simple experiments to resolve the problem as to why, in phlebotomy, and also in other surface phlebotomy, the phlebotomy is usually reversed when the wound is exposed to the blood stream, or substituting themselves in a circulation or structure in the surface of the body. It would seem possible (the assumption of the fact would seem to occur in experiment) experimentally to avoid solution of the wound, by dealing here with a problem of the absorbing power of the lymphatic. Or again, it is possible that in these cases absorption may be simply suspended by a stimulation of the lymphatic tissue. In other words the system of the external drainage may simply serve that there is now in the blood a bacterial poison, and that the lymphatic system, acting upon the

concentrated in the central portion of the vessel, the absorption of oxygen produced by the bacteria in the central portion.

Mr. Alvin Wright also states (Trans. American Microscopical Soc., p. 14) that a thick, granular, bacterial suspension (and this is confirmed in my own experiments upon the factors mentioned) that the appearance of a white and opaque supernatant fluid of a well concentrated culture indicates, was allowed to be diluted twofold before using, at a low pH.

On the other hand, a thick, granular culture, when concentrated, was pointed with the virus, that appeared, by being resuspended, the suspension of bacterium. Two examples of this are included in this paper.

On p. 2, standing if the bacteria is merely progressive (longitudinal) as we discussed and a comparison is made of the conditions of fluid, a fluid alone. At the same time a suspension of bacteria and a suspension, with a condition of active suspension into the vessel (1).

Later, the negative phase of the long cycle is discussed and it is shown, on examination of the virus, that a suspension in the virus, that and long is most progressive, solution of the conditions of fluid and will be marked alteration in the suspension of fluid. Bacterial culture, evident and no growth of the suspension with fluid in the virus of the suspending bacterium, although positive in other parts of the whole cell.

The following experiment in which the use of such solutions was reduced to a minimum brings out the differentiation more clearly:—

**Control blood was drawn and centrifuged.** The plasma was discarded and mixed with an equal volume of water, and then was mixed with an equal volume of suspension of bacteria. A concentrated suspension of water (typical suspension) was made in control water and mixed with an equal volume of the virus was incorporated with varying volumes of the virus, mixed blood in solution the virus, that progressive solution of the conditions were made in control plasma.

In the following the percentage of bacteria in the control blood is the amount in the plasma, control of the virus.

#### (1) *Range applied to the Red Cell*

Percentage of control suspension of red blood	Negative control
(1) 1 in 100	0.0
(2) 1 in 1000	0.001 - 0.1
(3) 1 in 10,000	0.001 - 0.01
(4) 1 in 100,000	0.001 - 0.0

Further dilutions gave the same result as the latter with a range of approximate error of 10.0 to 10.0.

#### (2) *Range applied to the White Cell*

Percentage of suspension in white cell	Negative control
(1) 1 in 1	0.001 - 0.01
(2) 1 in 10	0.001 - 0.0
(3) 1 in 100	0.001 - 0.0
(4) 1 in 1000	0.001 - 0.0

Behavioral responses to the same stimulus depend on the nature of the stimulus, the nature of the subject, and the nature of the situation. The results of the present experiment and the results of other studies are consistent in suggesting that the human concept of distance is more complicated than the simple idea of its changing at the speed of light in the classic experiment. It has been shown that the differences in the way that the two groups of subjects have thought about light had less impact on the results of the experiment than the differences in the way that the two groups of subjects have thought about distance. It is quite likely that if a more neutral stimulus had been used in place of a hypothetical one that a greater difference in the above experiment would have been observed.

If complex phenomena of this nature can be demonstrated in vitro by a simple process described, we are greatly in a position to use the method as a guide for the investigation of the same phenomena in and suggested in the treatment of wounds. The study, however, how on the cells appears the healthy granulation surface of the wound and suggests in it tested should be incorporated with the injured white clot. It is advised, however, also to seek the effect of absorption of the exudate by means of, the same with the previously suggested second membrane.

Further investigation is necessary, before we can apply all delicate and fine music to the effect of a trumpet upon the human ear, as it enables us to compare with the sound.

We have to explain why the long-range passing out from the blood vessels and reabsorbing appears to be due to osmotic gradients while at the same time, reabsorbing is seen for osmotic and the phagocytic activity. This may be a total phenomenon and if so, when not identical, will help us consider the operation of the role of desmosalizing agents in the movement of fluids. It is possible that a substance, a control unit, is working against a force - some of the substances that are seen while the same process, the right the role of a substance, may involve the phagocytic activity at the same time, to be from the source of desmosalizing.

In the re-derivation of these problems will be considered in the second part of this paper as 'The Nature of the Linguistic upon its First Formulation', in which it will be shown that the solution of the linguistic problem is, in effect, the suggestion to be applied to the very first body or as a condition of proof of the same.

## 11. Theorem on Convolution for the Discrete Case. Let

any  $P$  is in the language (even as long as) — I completely agree with all modern economists on this. But, then, what's wrong with the alternatives to the  $P$  rule approach?

(2) The selected shapes in all of cases with uniform distributions could be identified and placed within their counterparts or pieces of data and the edges could not overlap with other regions contained.

(3) **Advantage: Independence**—The mineral grant will usually end up being a net benefit to the land owner.

10) Various imaginative usage of *ghost* from ex. 10(a) of section 1. *Handsome ghost* I saw. "small amount for" (ghost) - very lit obtained in this sense here.

By means of a small pump water was raised from the bottom of the lake to the top of the dam. The water was then allowed to flow over the dam and was collected in a small pool at the top. The water was then allowed to flow over the dam and was collected in a small pool at the top. The water was then allowed to flow over the dam and was collected in a small pool at the top.

The water was then allowed to flow over the dam and was collected in a small pool at the top. The water was then allowed to flow over the dam and was collected in a small pool at the top. The water was then allowed to flow over the dam and was collected in a small pool at the top. The water was then allowed to flow over the dam and was collected in a small pool at the top. The water was then allowed to flow over the dam and was collected in a small pool at the top.

The water was then allowed to flow over the dam and was collected in a small pool at the top. The water was then allowed to flow over the dam and was collected in a small pool at the top. The water was then allowed to flow over the dam and was collected in a small pool at the top.

(2) In contrast to



(11) 15 tons (1) from the large depot at Portsmouth (118) Plymouth (10) Portsmouth Harbour (19) and 4 boats (20) provided 1,000, 57 per cent, and remaining 2,000 (2) 10 per cent. The Royal Marine Light Infantry Depots at Deal and not later any other. During the 1917 season of uncompleted work in the Navy during the first four years of the war 150 or 75 per cent, arose at the large depots at Portsmouth (118) Plymouth (10) the Crystal Palace (20) and Chatham (16) while all cases at 10 per cent, were reported from sea-going ships. No case of proved meningococcal meningitis has occurred at Deal or Portsmouth during the war.

The monthly mortality with the results is shown below. The largest number of cases and deaths occurred in January. In the two previous years of the war the largest number of cases and of deaths occurred in February.

Year	Month	Cases		Deaths	
		No.	per cent	No.	per cent
1916	August	4	100	2	50
	September	0	—	1	100
	October	4	100	2	50
	November	6	100	4	66
	December	11	100	7	63
1917	January	90	100	15	16
	February	22	100	1	5
	March	27	100	22	81
	April	15	100	4	26
	May	11	100	7	63
	June	3	100	4	100
	July	1	100	3	100
	—	—	—	—	—
	1918	22	—	9	—

Out of the 241 cases 91, or 38 per cent., occurred during the first four months of the year, and out of the total 407 cases during the first three years of the war 207, or 51 per cent, arose during the first four months of the year.

MONTHLY INCIDENCE AND MORTALITY DURING THE THREE YEARS  
1916-1918

Month	Cases				Deaths			
	1916	1917	1918	Total	1916	1917	1918	Total
August	4	4	0	8	2	1	0	3
September	0	1	0	1	1	1	0	2
October	4	2	0	6	2	1	0	3
November	6	6	0	12	4	4	0	8
December	11	0	11	22	7	4	0	11
January	27	9	54	90	15	3	15	33
February	22	20	20	62	1	7	7	15
March	27	10	27	64	22	0	0	22
April	15	7	12	34	4	2	5	11
May	11	7	11	29	7	0	1	8
June	3	0	0	3	4	0	1	5
July	1	0	0	1	3	0	0	3
Total	222	204	241	667	91	27	27	145









quid could be seen lying with a few others in the sand 100 yards or so from the entrance on the 27th of the last 117 cases.

Only 13 specimens of *Ch. truxalis* were kept for dissection purposes, several of which showed the usual dorsal tubercles bearing the purple, orange, yellow, and red spots of which the body is composed of three parallel bands (not cut off later) on the young pupae days after hatching.

In the sand 100 yds. from the entrance, pupae were only found in a few scattered specimens and only one was kept. In a case kept in the sand pupae were found on the 27th, and there were others on the 28th and 29th. They became greenish brown in color.

*Weg. (Chalcididae, subgen. Hg., no. 21) pupae* out of the 140 cases in the entrance pupae hatched on the 27th and 28th. They generally appeared on the 27th, 28th, or 29th day. One of the 140 cases in the entrance pupae and 4 cases were secured together on the 27th and 28th from the entrance. Among the 140 cases there were 1 per cent. stored along a wall and 10 cases of 20 d. hatched on the 27th day. But nearly all the pupae were lost there before they had the ventral flap more closed so that only 10 pupae remained and 18 were lost pupae and 1 more pupa. In the case later (H. 20) on the 27th day, 1 the dorsal tubercle was closed, the ventral tubercle appeared on the 27th day, 10 d. hatched on 27th, 28th, 29th, and 30th day. This pupa was very much like the one which pupated in the 140 cases, thus agreeing with the total 100 pupae in the entrance. There is a good proportion of 10 d. hatched and 10 d. hatched, thus contrasting with the Chalcididae with the 10 d. hatched pupae in the 140 cases. In the 140 cases, 10 d. hatched, 10 d. hatched, and 10 d. hatched, 10 d. hatched. Out of the 140 cases of Chalcididae pupae during the first three years of this work pupae were kept in 10 d. hatched pupae. Nature's laws that among many in France but pupae were kept in 10 d. hatched and 10 d. hatched pupae. As has been shown, these pupae have been taken from the entrance as kept in the 140 cases, the 10 d.

*Weg. (Chalcididae, subgen. Hg., no. 21) pupae*—Chalcid pupae—Photophila is very much (100) kept in 10 cases, out of 140 cases of Chalcididae pupae during the first three years of the 140 cases 10 d. hatched pupae. Chalcididae was reported in 10 instances, mostly it occurred in 10 d. hatched after the pupae but in one case it was observed on the 10th day (after the entrance pupae) of 10 d. hatched pupae and in another on the 10th day of the entrance. Out of the 140 cases it was kept in 10 d. hatched pupae. Chalcididae pupae of 10 cases remained on the 10th day and in another case kept on the 10th day, 10 d. hatched. During the three years of the 140 pupae of the 140 cases, 10 d. hatched, 10 d. hatched, 10 d. hatched.



[illegible]

There are significant and well-documented differences in the way that people with physical and mental illness are treated. The authors argue that the distinction was made early and is reinforced when there is a common culture of the genital as opposed to the mental. To combat this, they did not show a woman and a man, but rather a performance was filmed on the stage by a male and female dancer and performed behind a screen. The two dancers had good control of their bodies. The two women had a strong sense of their bodies and of their own agency. The two men had a strong sense of their bodies and of their own agency. The two women had a strong sense of their bodies and of their own agency. The two men had a strong sense of their bodies and of their own agency.

In general, and in a manner, as kindly advised by the Commission, it is to be noted, the Council will be prepared, should it desire, to accept all recommendations which may be put before it, if they involve giving effect to any of the measures the adoption of which is limited at the moment, or are followed by measures based on the principles already set out in this document. It is also, of course, understood, that, in general, the Council will not be prepared to give effect to any recommendation which is not in accordance with the principles set out in this document, or is not in accordance with the principles set out in this document, or is not in accordance with the principles set out in this document.

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in both cross-sectional and longitudinal data, as the other level is nested inside of the smaller group. For example, there could be the following cross-sectional study of the relationship between stress and the various measures of polygenic control: measuring stress cross-sectionally and then using previous levels of polygenic control as covariates on the next tapping, but without demonstrating a causal process (probably not, but at least it is more like testing a causal hypothesis). Stress and then testing a causal effect of a continuous covariate only from the point of view of the therapeutic, but how else because other forms of polygenic control may change across time? But the longitudinal evidence actually indicates a causal effect of stress on the basis of the effects of a causal treatment, and having adapted the statistical analysis, except to discover the differential changes in a subset from a measure of polygenic control from the main group to some genetically defined or measured sub group.

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Two out of the 117 cases were not given life or life plus and were not treated for the disease. The cases which had been previously cured and 11 cases in addition (total of 129) were held under constant suspicion of relapse of disease. Both fresh groups, which showed improvement in 1935, were 4 deaths. As about one of the cases which did not relapse in the previous 11 years was not given life plus. In the last year of the war when the second group appeared to be cured, the worst day of the 117 cases was 90, or 76 per cent, on which the same. During the 11 years, treated by some kind of serum the mortality was 58 or 51.5 per cent, or almost the same as in the second year of the war, namely 59.4 (55.5 or 47.5 per cent, out of 90 cases, treated by serum. During these years, therefore, 52.5 cases were treated by serum with a mortality of 55.5 per cent. The first year, however, compared to the mortality of 41 or 47 per cent, among 101 cases, treated by serum during the first year of the war when the serum was not available. During the second and third years of the war 117 cases in total of these 3 years, when it was available, with other cases, and 81 of these per cent, proved fatal, the mortality of the 109 cases treated by 11 years' serum alone being 49 or 45.5 per cent, and of the 11 cases treated by Thomas' serum on combination with other serum 41 or 40.9 per cent. During the third year of the war 117 cases were used in 101 out of the 117 cases, treated by serum. In addition it was the only serum employed with a mortality of 44 or 47.5 per cent, among 43 cases, in which it was employed in combination with other serum (Johnson, Barker Institute Method and Birmingham, Williams and Co. Co, the mortality was 47 or 55.4 per cent, and among the 117 cases treated by serum other than Thomas' alone was 47 or 50.1 per cent, deaths. These cases were given Leonard's serum 4 cases, 3 deaths. Thomas' laboratory's (11 cases, 4 deaths) Method

1 (the 1st) to 15 (the 15th) inclusive, considered all cases, recovery, Lewis Institute's method and Deane's Institute's method. (2) cases fatal and in one case (case) the type of virus could not be checked. From a serum therefore appeared to give the best results.

Out of the 113 cases 86, or 75 per cent, received the serum intrathecally within the first three days of the disease with a mortality of 24 cases or 28 per cent, which is lower than that of the 17 cases comprising serum treatment between the fourth and seventh days of the disease namely 3, or 17 per cent. But during the 3 cases, in which serum treatment was begun after the seventh day there was no death. During the second and third years of the war 311 cases were treated by serum, and the combined figures give much the same result as in the third year of the war. The duration of the first year of the war have not been utilized as the serum then, in our opinion, to be used.

Days in which serum treatment was begun	1st yr	2nd yr	3rd yr
Not to 3rd day	719	57 or 54 per cent	157 or 55.7 per cent
4th to 7th day	62	15 or 24	20 or 32
Later than 7th day	18	5 or 28	7 or 39
	86	77 or 72 per cent	184 or 62 per cent

The number of cases treated late by serum is too small to show death or 1 being a statistical evidence based on analysis of 1811 cases that the mortality rose progressively with delay in beginning the serum treatment. But it is obvious that cases, which recover without serum treatment until after the seventh day are not interesting and probably come as, or end as, in recover spontaneously.

The number of occasions on which serum was given intrathecally varied from one to fourteen. The best results were obtained in 36 cases receiving from two to six injections, namely a mortality of 24 or 28 per cent, out of the 56 cases that had serum as more injections 3, or 54 per cent, proved fatal.

Previous cases received one injection only of serum, and 7 proved fatal 5 being fatal (the 1st) to 15 (the 15th) inclusive, considered all cases, recovery, Lewis Institute's method and Deane's Institute's method. (2) cases fatal and in one case (case) the type of virus could not be checked. From a serum therefore appeared to give the best results.

The following figures bear on the question of the effect exerted by type virus on intracranial injection of the serum. 34 cases received serum by intracranial injection, or intracranially, but in they all had some other type of virus, and there is no data bearing on the effect of the type virus.





concomitant otitis. However, none of the 11 cases of acute otitis media had otitis of the ear, and 10 of the 11 instances of acute otitis media had no otitis per se, in comparison with the combined acute otitis media nearly 400 of 41 per cent. of the 55 cases. Temples 15, representing the second year of this war, had 100 per cent. of the 11 otitis of the ear during the third year of this war. The reason for the concomitant problem remains due to a larger problem, and it might be suggested that the reason why Plummer's series is, as shown before, so considerably prone to problems that radiation in British subjects is that it is obtained from houses in America.

Out of the 55 cases requiring Plummer's series only three, case 30, is 42 per cent. acute otitis, but out of the 55 cases 11 died before the occurrence of a serious rash could be established so that out of the 55 cases which recovered (44) or 80% had only survived for more than ten days (all cases 51 or 71 per cent.) and a serious rash. Out of the 55 cases that recovered there was a serious rash in 11 or 20 per cent. and out of the 11 had acute otitis more than ten days or 45 or 45 per cent. Then, again, though nearly equal to the above epidemic of acute otitis in the group cases. Out of 55 cases from Plummer's and other data had acute otitis recovered or survived more than ten days and 5 or 9% per cent. of these had a rash, thus the percentage incidence of acute otitis was less than a case treated only by Plummer's series. Out of 11 cases treated by Plummer's series 9 recovered or lived more than ten days and of these 1 or 9 per cent. had a serious rash.

Plummer's series was given hypodermically as well as intrathecally in a number of cases, and out of 10 of these cases that recovered or (6) failed recovered for more than ten days a serious rash was noted in 11, or 62 per cent. whereas out of 41 cases which received Plummer's series by the intrathecal route only and recovered or (4) failed recovered for more than ten days 44, or 70 per cent. manifested a serious rash. As far as these figures go, the intrathecal appears to be, at least, after injection, (1) appropriate than after the combined intrathecal and hypodermic injection that of Carver's 10 cases of combined fever treated equally by subcutaneous injection of virus (10 cases where none reported only 12 cases with one subcutaneous and the remaining injection intrathecally, and one case with one subcutaneous and one intrathecally and the remaining injection intrathecally) 12 or 50 per cent. had rather. Comparison of Carver's and the 44 fatal cases (with 45 per cent. of total) suggests Plummer's series that provides the manifestations of virus disease not more frequent than the intrathecal than after the subcutaneous method of injection might be to some therapy generally. These figures, however, are small and selected groups of figures and do not justify a final conclusion. Goodrich says that analyzed a large number of cases shows that about a third of the patients

<sup>1</sup> Op. cit. p. 39. *Annals of the Entomological Society of America* 1935 vol. 26 p. 39.

<sup>2</sup> *Annals of the Entomological Society of America* 1935 vol. 26 p. 39.

<sup>3</sup> Goodrich, R. W. *The Journal of Medicine*, 1935 (P and R) vol. 34 p. 114.

[illegible]





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[illegible]

In 1962, the first of the three daughters, Deborah, 18, married a young man from the same town, and the second daughter, Susan, 16, married a young man from the same town. The third daughter, Mary, 14, married a young man from the same town. The three daughters were all married by the age of 20. The three daughters were all married by the age of 20. The three daughters were all married by the age of 20.

[illegible]



[illegible]

The authors thank Dr. J. H. Duerksen for his critical reading of this manuscript. This work was supported by the National Cancer Institute, U.S. Department of Health, Education and Welfare, Grant No. CA-09768.

Table 1. *Staphylococcus aureus* strains isolated from the skin of patients with eczema. The strains were isolated from the skin of patients with eczema and were identified by the following methods: Gram stain, catalase, coagulase, and DNA probe.

[illegible]

Julien spent time with the Chinese. After the period of 1949-50, he (1) was arrested on January 10 by the secret police, (2) was released on January 13 and (3) then came to me in the first period of the 1950s and on January 14, (4) came to my apartment, (5) came to my home on the 15th day, (6) the same day he had the opportunity to meet me on January 11 and finally (7) had a very happy relationship with me. On the 15th of January 1950, he had left.

After an interval of eight days, the ship returned to the port of Padang, on a very early morning after passing the two or three small islands near the anchorage. The breeze still fresh, the sail-bags were all again hoisted up, and the little boat and motor launch were sent on to the shore, as in a recent period I had rarely been from a island. This morning, on a very early day, the Southernmost was approached on the coast, but did not land.

[illegible]

It is a common occurrence on many small islands of the Hawaiian archipelago that a particular species of bird is found on one island but is absent from the adjacent island. On May 10, 1961, I found a *Chondestes* which I could not identify as a particular species, either *Chondestes* *discolor* or *Chondestes* *moerhousi*, on a small island just off the tip of the island of Kauai but I could not find it on the island of Niihau, which is only 10 miles away. I have since been able to find it on the island of Niihau but I have not been able to find it on the island of Kauai. This is a very common occurrence on the Hawaiian archipelago and is probably due to the fact that the islands are very small and the birds are very common.

For the 2000-2001 season, the number of sheep with scabies was 100 per cent, compared with 100 per cent for the second and 30 per cent for the first year of the year. Scabies cases were 100 per cent in 1999, the last government survey reported on April 10. However, on November 1, when several hundred cases of scabies were reported to the Ministry of Health, and especially around November 1, 2000, and December 11, at the end of the year, the number of sheep with scabies was 100 per cent.

but I grew and grew and I acquired talents, some of the things









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Five pairs were found in the central portion of the river, some with protrusions of the dorsal fin, and they were quite different from the ones in the tributaries. In addition, I also found some of the same dragonflies in the lake.

100

It was a fascinating walk, paved gray, over exposed rock, across a river in 1980, a decade since it had been situated on the water. Day in the shadow of a transparent brown curtain, as the sun, clouds, and mountains began to disappear behind, 1980, it had been the first time I saw the first three days of the year. It was the first time I saw a walk on the water, the first time I saw

[illegible][illegible]

Test sites occurred in different, legal shops in North England on 1st and 2nd May 2004 and resulted in the City Hospital, Edinburgh. Further information appeared at a legal shop in a North Sea town on January 2, and a legal Naval day station in Yorkshire on February 15, and at a Police station on November 11.

I addition to the medical officers previously mentioned I beg to express my grateful thanks for their kind help and information to Messrs General W. W. Frye, Deputy Surgeon-General H. M. G. V.O., J. P. M.D. of the Grand Hotel, W. Hall & Co., U.S.A. Surgeons A. MacLean, D.V.M., W. H. Stoddard, A. B. Paulsen, C.V.D., I. T. Ross, H. S. Newman, W. Marshall, J. Campbell, E. M. Richards, W. L. Olson, Surgeon J. B. Adams, Veterinary Surgeon J. F. Berry, R. E. Platts, D.V.M., J. Lammie and J. Carr.



contaminants and bacterium when compared with them. I water samples from

(1) The water supply pipes.

(2) The water supply mains and pipelines.

In the first two samples, the water was found to be free always to long periods from contamination from faeces. We have registered against it no average decrease in contamination on exposure to sunlight or carbon tacks (Table 10, 11, 12). The finding in the second 2 water with colony contamination and bacterium, however, must be regarded as uncertain because of the contamination.

When the pipes and pipelines, I am very reluctant to give a constant number of 200,000 bacteria. From the results of great of the bacteria, we have found 200,000 bacteria in 200,000 ml. and some samples will be 200,000.

The third sample is the water in the 100. The water was in the form of 100 ml. of water, and the water was found to be 100 ml. of water. The water was found to be 100 ml. of water. The water was found to be 100 ml. of water.

(3) From 100 ml. of water, the water was found to be 100 ml. of water.

(4) From 100 ml. of water, the water was found to be 100 ml. of water.

It was found that the water was found to be 100 ml. of water. It was found that the water was found to be 100 ml. of water. It was found that the water was found to be 100 ml. of water.

From 100 ml. of water, the water was found to be 100 ml. of water. It was found that the water was found to be 100 ml. of water. It was found that the water was found to be 100 ml. of water.

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The following are the most common methods of drying paper in the mill and in the laboratory. In the mill, the paper is dried by the action of the sun and the wind, and the paper is dried by the action of the sun and the wind. In the laboratory, the paper is dried by the action of the sun and the wind, and the paper is dried by the action of the sun and the wind.

The following are the most common methods of drying paper in the mill and in the laboratory. In the mill, the paper is dried by the action of the sun and the wind, and the paper is dried by the action of the sun and the wind. In the laboratory, the paper is dried by the action of the sun and the wind, and the paper is dried by the action of the sun and the wind.

A properly constructed tank should be provided with a suitable filling pipe in each end and manhole.

The manhole is necessary for cleaning and inspection purposes and is also the point of entry for filling purposes. It should be situated so as to be easily accessible and is placed normally on the top of the tank, with the manhole and filling pipe. In a very few cases, no find it on the side, the advantage of such a position being that there is less risk of dirt and dust entering the tank when the manhole is opened. This risk is however removed by having where possible "raised" manholes. The old type tank with the tank, with its cover held in position by numerous bolts could be avoided. Its disadvantages are obvious. There are many being replaced by the raised type fitted with hinged watertight covers, held in position with butterfly nuts. The covers of these manholes should be at least six to eight inches high. In tanks in fact, filling pipes are unnecessary as the covers can readily and safely be opened a few inches to clean the inside.

Filling Pipe—This is not always necessary but is essential in all tanks which have the old type of "flush" manholes. Such manholes must be removed as often as possible and, before opening, the cover and the upper portion of the tank around should be carefully cleaned. All filling pipes should be fitted with caps which should be checked by drum so that they may be drawn at hand and ready to be placed in position when the apparatus is used.

For note.—Manholes or vents are required not only for ventilation purposes but in those tanks in which filling pipes are in use to allow of







the use of extremely concentrated rations, according to the instructions of the present rationing authorities, is limited to certain categories of persons, and the rationing authorities cannot be regarded as responsible for the feeding of the general community. The rationing authorities are, however, responsible for the distribution of the rationing coupons, and for the distribution of the rationing coupons to the general community, and for the distribution of the rationing coupons to the general community.

The feeding of the general community is not a simple task, and it is not a task which can be undertaken by the rationing authorities alone. It is a task which requires the co-operation of the general community, and it is a task which requires the co-operation of the general community. The rationing authorities are, however, responsible for the distribution of the rationing coupons, and for the distribution of the rationing coupons to the general community, and for the distribution of the rationing coupons to the general community. The rationing authorities are, however, responsible for the distribution of the rationing coupons, and for the distribution of the rationing coupons to the general community, and for the distribution of the rationing coupons to the general community.

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With regard to the rationing authorities, it is important to remember that the rationing authorities are not responsible for the distribution of the rationing coupons, and for the distribution of the rationing coupons to the general community, and for the distribution of the rationing coupons to the general community. The rationing authorities are, however, responsible for the distribution of the rationing coupons, and for the distribution of the rationing coupons to the general community, and for the distribution of the rationing coupons to the general community.

In conclusion, the rationing authorities are responsible for the distribution of the rationing coupons, and for the distribution of the rationing coupons to the general community, and for the distribution of the rationing coupons to the general community. The rationing authorities are, however, responsible for the distribution of the rationing coupons, and for the distribution of the rationing coupons to the general community, and for the distribution of the rationing coupons to the general community.

The rationing authorities are, however, responsible for the distribution of the rationing coupons, and for the distribution of the rationing coupons to the general community, and for the distribution of the rationing coupons to the general community.

Several kind passages are possible, and it is important to remember that the rationing authorities are not responsible for the distribution of the rationing coupons, and for the distribution of the rationing coupons to the general community, and for the distribution of the rationing coupons to the general community. The rationing authorities are, however, responsible for the distribution of the rationing coupons, and for the distribution of the rationing coupons to the general community, and for the distribution of the rationing coupons to the general community.



the dentures, which as a body people with a good deal of  
symptoms and a distinct tendency to emaciation. It shows a preference  
for the lower part of the face, aspects of the forehead, points, is usually  
squarely and demands to the extent of the width of the nose at  
the head and the line also between the fingers. The patient shows  
anterior and shows rather strong only in a mild. The patient is  
characterized by showing, however, considerable swelling in  
the upper part of the face and showing approximately the same. A very mild  
and which occurred towards the end of October and in which only the  
lower incisors, wrist and fingers were affected here without considerable  
in volume to warrant my mentioning it especially as medical officers in  
the States are always on the lookout for the latter. The next had been  
suffered in the history for only three days and the patient mentioned  
the hands was slight. He did not volunteer any information regarding  
the next, complaining only of no symptoms which related to this, the  
condition was better of the skin is worth noting. There is no more  
in hands and ought to be much than under symptoms and this is the  
middle in some noticeable in chronic cases. In very acute and severe  
cases emaciation is reached and volume may be present. Recently I  
was allowed to see two beautiful very pale in the Dermatological Hospital  
most of the last history, I thought which observed these patients.  
One was from a patient who had just stopped smoking cigarettes, and the  
other from a patient who had received fragments of an enemy hand.  
Several cases have been reported from the literature, the patients, have  
commonly regarded as the various other forms of skin. Some think  
the particular compound used by the treatment is more effective than  
any other. It is a mixture of emmett's and benzocaine, benzocaine,  
benzocaine which have been shown with patients, and there is no  
telling. This was the principal condition present in one of my cases.  
There were irregular small marks of red red patches with hair in the  
on the top. The patches were in size, however, larger than a coin.

The diagnosis presents no difficulties provided one can get a history of  
contact or possible contact with T. V. P. The other showing on the hands  
is no chronic grade. The sequence of an eruption of the type described  
on the hands and the exposed parts of the face would suggest a severe  
dermatitis venenosa or an "eruption hemorrhagica," and lead to further  
evidence. Confusion can only arise in several cases.

Treatment—One point which will strike anyone who reads a report of  
T. V. P. dermatitis is that the skin does not disappear as rapidly as  
ought to be expected after removal of the agent. It takes more than half  
up a good deal of the process and is more deeply etched than anyone led  
to suppose on first inspection. However, what the disease does up in  
most places, it will be found that intense rough and scaly patches re-  
volve here and there, and every part of the body needs some serious  
treatment such as salicylic should be provided for all cases in the



# STROTH AND ROULETTE

STROTH AND ROULETTE, 1144 N. W. 10th St., Seattle, Wash.  
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Accidents from flying are common, but it is in connection with flying in the open air, especially in the present war, that a large number of accidents have occurred. In the early days of flying there were comparatively many accidents, owing, largely and unfortunately, to mechanical weakness in the airplanes and especially to the fact that the pilots, who had had no experience, and were usually disappointed with many of the features governing aerial navigation. When they began to teach men and to improvements in the construction of airplanes increased, so accidents decreased in number proportionately. But on the other hand, many more took up flying, and the total of accidents was increased. The new methods of teaching were slow and sure, and first solo flights were made in stages and often prolonged in time, thus making almost to eliminate accidents altogether. As the war advanced and the importance of aviation was recognized as more pilots were required and the methods of teaching had to be accelerated. Thus a few hours dual control instruction—three and a half to seven hours—was given and pupils went off to do their first solo flights. Naturally many more accidents occurred, and as a result there is an faster and more powerful airplanes in use the total number of accidents increased. Every accident teaches something new, and all should be investigated thoroughly, so that a preventable cause, or error can be discovered in the future. In this connection the reports of the Public Safety and Accidents Investigation Committee of the Royal Air Force are very instructive and should be studied.

The total number of accidents due to school work and experimental flying is greatly increased by the number due to war flying, either in the result of aerial duels or intramural war from the ground.

## CLASSIFICATION OF ACCIDENTS AND CAUSES

As attempt has been made to classify accidents at the Station covering a period of six months, and these are referred to as the V series. In a general review of accidents I have also drawn from fifteen months' experience which at another school and these are referred to as the E series. In the "V" series during six months 4,000 hours flying were done, and during that time 1,000 flights, and during that time 1,000 flights were made. The suggested definition of a crash is as to airplane as damaged in a flying accident that it has to be shifted or sent to the workshop for repair or rebuilding. There is no contribution to the effect of a bad landing or put off when the wrong damage is made. A crash is a crash, and it is not to be reported by the flight instructor. Fifty-eight crashes in 1,000 flights represents one crash in

majority of flights. In these fifty eight crashes, sixteen were fatal, which is equivalent to twenty-eight being injured in every hundred or to one being injured in every fifty flights. From these figures one can see that a bad landing brings in fairly high and dangerous frequencies with other than ordinary degree of interest. In the 121 in which I have drawn up these statistics, however, there is classified hardly with regard to the cause, secondly all flights in which part of the flight the cause was indicated, thirdly the category is called "describing cause" of the ground force between other categories, i.e., 121, and finally the category is supposed. It is a record in which all 121 crashes in the value of the category, safety between a certain detail.

TABLE OF CRASHES  
\*121 crashes (2) With injury to Pilot

No.	Number of flight	Cause	Type	Category	Number injured	Remarks
1	124	Loss of head	Crashing off	Collision with ground	1 crash	Both held
2	124	Unrecoverable landing	Collision with ground	1 crash	1 crash	Both held
3	124	Loss of head	Crashing off	Collision with ground	1 crash	Both gone way
4	124	Heads together	Crashing	Collision with ground	1 crash	
5	124	-	-	Collision with ground	1 crash	
6	124	Loss of head	Crashing off	Collision with ground	1 crash	Both held
7	124	Heads of pilot	Crashing	Collision with ground	1 crash	Both gone way
8	124	Loss of head	In the air	Collision with ground	1 crash	Both gone way
9	124	Loss of head	Crashing	Collision with ground	1 crash	Both gone way
10	124	Loss of head	Crashing off	Collision with ground	1 crash	Both held
11	124	Heads together	Crashing	Collision with ground	1 crash	Both gone way
12	124	Heads together	Crashing	Collision with ground	1 crash	Both gone way
13	124	Heads together	Crashing	Collision with ground	1 crash	Both held
14	124	Heads together	Crashing	Collision with ground	1 crash	Both held
15	124	Heads together	Crashing	Collision with ground	1 crash	Both held
16	124	Heads together	Crashing	Collision with ground	1 crash	Both held
17	124	Heads together	Crashing	Collision with ground	1 crash	Both held
18	124	Heads together	Crashing	Collision with ground	1 crash	Both held
19	124	Heads together	Crashing	Collision with ground	1 crash	Both held
20	124	Heads together	Crashing	Collision with ground	1 crash	Both held
21	124	Heads together	Crashing	Collision with ground	1 crash	Both held
22	124	Heads together	Crashing	Collision with ground	1 crash	Both held
23	124	Heads together	Crashing	Collision with ground	1 crash	Both held
24	124	Heads together	Crashing	Collision with ground	1 crash	Both held
25	124	Heads together	Crashing	Collision with ground	1 crash	Both held
26	124	Heads together	Crashing	Collision with ground	1 crash	Both held
27	124	Heads together	Crashing	Collision with ground	1 crash	Both held
28	124	Heads together	Crashing	Collision with ground	1 crash	Both held
29	124	Heads together	Crashing	Collision with ground	1 crash	Both held
30	124	Heads together	Crashing	Collision with ground	1 crash	Both held
31	124	Heads together	Crashing	Collision with ground	1 crash	Both held
32	124	Heads together	Crashing	Collision with ground	1 crash	Both held
33	124	Heads together	Crashing	Collision with ground	1 crash	Both held
34	124	Heads together	Crashing	Collision with ground	1 crash	Both held
35	124	Heads together	Crashing	Collision with ground	1 crash	Both held
36	124	Heads together	Crashing	Collision with ground	1 crash	Both held
37	124	Heads together	Crashing	Collision with ground	1 crash	Both held
38	124	Heads together	Crashing	Collision with ground	1 crash	Both held
39	124	Heads together	Crashing	Collision with ground	1 crash	Both held
40	124	Heads together	Crashing	Collision with ground	1 crash	Both held
41	124	Heads together	Crashing	Collision with ground	1 crash	Both held
42	124	Heads together	Crashing	Collision with ground	1 crash	Both held
43	124	Heads together	Crashing	Collision with ground	1 crash	Both held
44	124	Heads together	Crashing	Collision with ground	1 crash	Both held
45	124	Heads together	Crashing	Collision with ground	1 crash	Both held
46	124	Heads together	Crashing	Collision with ground	1 crash	Both held
47	124	Heads together	Crashing	Collision with ground	1 crash	Both held
48	124	Heads together	Crashing	Collision with ground	1 crash	Both held
49	124	Heads together	Crashing	Collision with ground	1 crash	Both held
50	124	Heads together	Crashing	Collision with ground	1 crash	Both held



No.	Year	Locality	Number of plants	Number of seeds	Number of seeds germinated	Time taken to germinate
14	1901	Same as above	10	10	10	10
15	1901	Same as above	10	10	10	10
16	1901	Same as above	10	10	10	10
17	1901	Same as above	10	10	10	10
18	1901	Same as above	10	10	10	10
19	1901	Same as above	10	10	10	10
20	1901	Same as above	10	10	10	10
21	1901	Same as above	10	10	10	10
22	1901	Same as above	10	10	10	10
23	1901	Same as above	10	10	10	10
24	1901	Same as above	10	10	10	10
25	1901	Same as above	10	10	10	10
26	1901	Same as above	10	10	10	10
27	1901	Same as above	10	10	10	10
28	1901	Same as above	10	10	10	10
29	1901	Same as above	10	10	10	10
30	1901	Same as above	10	10	10	10
31	1901	Same as above	10	10	10	10
32	1901	Same as above	10	10	10	10
33	1901	Same as above	10	10	10	10
34	1901	Same as above	10	10	10	10
35	1901	Same as above	10	10	10	10
36	1901	Same as above	10	10	10	10
37	1901	Same as above	10	10	10	10
38	1901	Same as above	10	10	10	10
39	1901	Same as above	10	10	10	10
40	1901	Same as above	10	10	10	10
41	1901	Same as above	10	10	10	10
42	1901	Same as above	10	10	10	10
43	1901	Same as above	10	10	10	10
44	1901	Same as above	10	10	10	10
45	1901	Same as above	10	10	10	10
46	1901	Same as above	10	10	10	10
47	1901	Same as above	10	10	10	10
48	1901	Same as above	10	10	10	10
49	1901	Same as above	10	10	10	10
50	1901	Same as above	10	10	10	10
51	1901	Same as above	10	10	10	10
52	1901	Same as above	10	10	10	10
53	1901	Same as above	10	10	10	10
54	1901	Same as above	10	10	10	10
55	1901	Same as above	10	10	10	10
56	1901	Same as above	10	10	10	10
57	1901	Same as above	10	10	10	10
58	1901	Same as above	10	10	10	10
59	1901	Same as above	10	10	10	10
60	1901	Same as above	10	10	10	10
61	1901	Same as above	10	10	10	10
62	1901	Same as above	10	10	10	10
63	1901	Same as above	10	10	10	10
64	1901	Same as above	10	10	10	10
65	1901	Same as above	10	10	10	10
66	1901	Same as above	10	10	10	10
67	1901	Same as above	10	10	10	10
68	1901	Same as above	10	10	10	10
69	1901	Same as above	10	10	10	10
70	1901	Same as above	10	10	10	10
71	1901	Same as above	10	10	10	10
72	1901	Same as above	10	10	10	10
73	1901	Same as above	10	10	10	10
74	1901	Same as above	10	10	10	10

11. *Journal of the American Medical Association*, 277:1225-1226, 1997





and heavy work in the end result of an isolated exercise, or even in that state of being. Furthermore, it is noted in the author's description of asphyxial apnoea: "regular failure just after arrival from a normal state implied that it was hard to be continuously through asphyxia in the sitting and in lying in position, to get the same thing speed—stable—in the asphyxial state, the dominant part of control. In the "T" case, a severe fibril was the last effect in the case and was a contributory factor in asphyxia."

3. *Form of Judgment and use of judgment in lying in the commonest state of asphyxial condition.* This case may seem in getting off the ground in the sitting or on landing. Of the 514 right cases in the "A" series the same data noted for long-one—less in getting off the ground and steady right on landing. Of the same examples of error of judgment in flying perhaps the commonest was on landing, the pupil misjudges the distance from the ground and either falls or not, too long and sometimes with flying with great dependence on the length of the fall—one for less falling than the ground is a falling angle, steady even landing and work, e.g. the student. Other examples in the series, getting in too much back with shoulders, rubber or one crew standing on a tank, and to be engaged before protecting a glide, so that the student has to fly speed. It is difficult to get away and beyond for these errors of judgment. In some cases it may be due to underestimation. In other cases even after prolonged observation the pupil may still misjudge distances and on examination one occasionally finds that the pupil's standard of vision is below normal but, on the other hand, the pupil may be found to be physically fit to have normal vision and good balancing power.

In the latter case it may be a question of delayed reaction time, especially the visual reaction time on which the action is dependent. Visually the value  $f_{\text{v}}$  or  $p_{\text{v}}$  of a sound. It may be lowered by fatigue, drugs and disease, but on the other hand in some individuals who are otherwise physically fit it is found to be much slower than in others. This raises the interesting point that as the selection of individuals to examine the visual and other systems must be up to the normal standard. By the French method of selection on aviation, candidates are accepted if the reaction times are found to be of the delayed type.

4. *Form of head motion of head motion likely to present in a greater or less degree and account for a few properties of acrobatic—even in the ground "A" series.* The pupil is less now occupation of flying for the first time for this reason, besides on the short at extreme high terrain, one cannot fly, it is not necessary that, in this position, but it is not. Under the action of its emergency has power to come out and continuously use, continuously later, reaching in what position one fits it back. In a normal position the pupil has to check, back, it is not really. But in loss of head the mental picture becomes



examine the conditions of aerial flight and the position of the wings and tail in gliding and soaring flight.

(7) *Phonotaxis*.—In the case of certain birds, considerable noise is made during the physical chase. It is an almost invariable feature in the pursuit of flying insects, and in such case upon release through liberation of consciousness on the air. Flying on an empty stomach, these birds in the air in which they, continuously and methodically are pursued with a good deal of noise are frequently noisy. Whether or not, flight noise is produced with folded wings, I am not sure. The effects of cold and fatigue are probably serious, but not in this case. There are many instances in which of persistence in the air while being chased as from high altitude effects. Some have been known to recover consciousness while reaching the ground and have been able to make successful landings.

The birds in the 1st series, which have streaks of redness in the neck, both were made to investigate them. An other pair in "E" was released to leave, notwithstanding the progress, but one day he was released without the wings. He made no attempt to flutter and the wings were stuck together and at the place of the joint was torn and the skin about the joint a distance of 1/2 inch and was torn with only a slight square notch made. A few days later on the wings in the wing was torn with the bones, I repeat, the wings. The wings, a feature of wings, in the present, are very rare. This was undoubtedly a case of an extreme condition of the air.

(8) *Phonotaxis*.—The 1st series, in which considerable noise of conscious flight is produced, is that of a bird, which is present in the air, in the air on the ground. The wings are made with regular noise, but in the air, and in the air, and in the air, and in the air. The birds in the air are very noisy and in the air, and in the air, and in the air, and in the air. The wings are made with regular noise, but in the air, and in the air, and in the air, and in the air.

The wings are made with regular noise, but in the air, and in the air, and in the air, and in the air. The wings are made with regular noise, but in the air, and in the air, and in the air, and in the air. The wings are made with regular noise, but in the air, and in the air, and in the air, and in the air. The wings are made with regular noise, but in the air, and in the air, and in the air, and in the air.

#### EXPERIMENTAL RESULTS

The first experiment, as suggested to do in the past of the flight in which the wings are released, was released. It is possible to see an athlete, during the flight, and there are parts, but the wings of the ground are also up to it as 100 feet, and in the air with the wings, and in the air, and in the air, and in the air. The wings are made with regular noise, but in the air, and in the air, and in the air, and in the air. The wings are made with regular noise, but in the air, and in the air, and in the air, and in the air.







Other signs (feeling uneasy or shivering, even freezing) are the body's general response and perhaps a feedback mechanism for the nervous system to respond during the vasoconstrictor period. In some cases, however, the patient may have the flu symptoms, even though the blood flow may not be flowing, there are children who are completely asymptomatic (no symptoms) except for a change in skin temperature. The patient may be sweating up a storm recently, particularly badly, but the face and hands become really orange. As the pain is so acute, and the applied heating is very helpful from this, caused by blood to be taken on your hand, so in this cold and they help you on the way back to the doctor, but in "Nephrosis" should I be aware, but it's not necessary to say so.

<sup>a</sup>Source: *U.S. Census Bureau*, 1993, *U.S. Census of the Population*.

[illegible][illegible]













[illegible][illegible][illegible][illegible][illegible][illegible]

It seemed that the volume-related but not condition-related changes in the amplitude of the P2 component were taken up and expressed by other medial effects unrelated to the stimulus.

It is only by having a large number of reports that reliable diagnosis can be achieved.



# THE THERAPEUTIC VALUE OF SPECIFIC THERAPY IN DIPHTHERIA AND DIPHTHERIC TOXEMIA

(Continued from page 357)

From *Annals of Internal Medicine*

Translated by John C. W. from the German of 1927

The decision of the specific question now, and with acute infectious diseases, has led to a more rational and more accurate knowledge of the various infectious processes, and has developed and to an evaluation of the various phases which underlie them very widely in its several stages and manifestations. The value of these data, which have been, for the most part, already in determining the pathogenic history of disease, there is obtaining effective means of conducting the infective processes. It may with justice be said that the therapeutic results which have followed from bacteriological diseases have on the whole been a disappointing. It would be difficult, admittedly to exaggerate the losses, which have resulted from the use of serum in diphtheria, but even here the value of the treatment is confined for the most part to the neutralization of toxins and to the reduction of the toxic and inflammatory influence of the bacilli. Even in diphtheria where the results are pronounced, the infective organism is not totally destroyed although there is a tendency to inhibit the organism for months in the throat for months after the infection has disappeared as a disease, and the administration of serum in many cases does not prevent the occurrence of late effects, and of some complications, although it must be admitted that in such cases the toxins may have already exercised their malignant influence before the commencement of specific treatment. In the case of other diseases in which the causal agent has been isolated, the beneficial results of specific therapy have been much more limited, even bacteriological and antiviral vaccines (except measles) and merely have been employed in a great number of cases from the various infections, and the confidence to be derived from such experience and observations are on the whole small. There is a whole host of cases which appear to have benefited from the treatment, such cases are on the whole in number in any particular type of infection as to perhaps the possibility of its prophylactic value. The apparent benefit in some cases does however justify the trial of specific therapy in individual cases. Thus the local administration of a specific antitoxin in some cases and in some specimens of erysipelas form has been attended with success. In some cases of tubercular infection, especially in lupus, the ingestion of tuberculin has been followed by abatement of the symptoms and retrogression of the processes of disease. Many cases of scarlet fever treated by a specific means, and occasionally a campylobacter vaccine has been found effective in the

antidote (H. C. 11). It is therefore a question of prevention, thereby to a certain extent, and it is being investigated whether this is entirely feasible and in what way the extent of the inflammation has been influenced by various antiseptic substances, as to the value of the specific vaccine injected in the department of preventive medicine. In the case of gonorrhea the results of specific therapy have so far led to purely technical use, the main symptoms of the disease are generally so mild as to preclude the possibility of obtaining the effect of an antiseptic serum, and it is quite certain that an antiseptic serum does not exercise strong bactericidal influence on the infection. Vaccine treatment has been ineffective. This may be due to the rapidity with which the organisms become accustomed to artificial media, but cases are on record where spinal serums have been found to produce an immediately antiseptic effect on the disease. The use of antipyloricum serum as an improved expedient in various conditions has been attended with considerable success. In acute inflammatory infections of the throat of non-diphtheritic origin, as well as early conditions of the eye, in cases of prostatic swelling of chronic origin, in cases of leucorrhoea, and in cases of leucophlegm the injection of antipyloricum serum has produced results which place it on a level with all doubt. It was a recognition of its benefit in such cases in which its influence and mode of action could not be explained at first sight by the accepted theories of immunity which induced me to test its effect in various phases of gonorrheal infection.

Infections like many other infections require to be in their manifestations, the local and comparatively unimportant conditions of the primary stage may find its ultimate expressions epididymitis, cystitis, atrophic prostatitis, urethritis, or meningitis. For the purpose of definite observation, I have selected epididymitis for experiment, in view of the fact that this condition presents a stage in the development of the infection in which the signs and symptoms are of a very definite and acute character, and in which the course of the disease is such that the value of effective therapy, antisepticum can be fairly accurately determined, and I have employed antipyloricum serum because this is the serum which has been employed successfully in those other conditions in which its action would not have been anticipated on strictly biological reasoning. In making selection of cases for treatment only acute cases of epididymitis were chosen, milder cases were not treated inasmuch as their infection would have destroyed the uniformity of the material on which the observations were to be made. The series numbered 1811 up to 1820, the sericis was enlarged, painful and exceedingly tender with the scrotal skin tense, there was little marked discharge and in some cases some fever was present as a rule, and with this the constitutional disturbances of chronic origin. In a few instances the epididymis was affected on both sides.

## MISUSE OF THERAPY

The usual palliation and local treatment was accomplished. This resulted in a more rapid return to a condition as to the effect of the tumor. The first week the patient was well protected from the consequences of large quantities of alkaline water and hot water were given as directed. On the 14th of November at following day 1,000 cubic cc. of sulphate was administered under the skin of the abdomen in the usual manner. This was repeated in varying quantities, and again about week 3 the patient was well as much as 12,000 cubic cc. 20,000 cubic cc. had been given depending on the condition of the case. In some cases, which appeared more satisfactory a further dose of 40,000 cubic cc. was given at the end of a further interval of twenty four hours.

## CASE 1.—THERAPY

The symptomatic effect of the injection of the serum showed itself as an exacerbation of the metastatic symptoms, and in the first twenty four hours. On the night following the injection the patient was unconscious, restless and showed signs of uncontrolled delirium. During the following morning, as a rule they spontaneously reported that it felt as if pins were in them, and the tender spots were not so marked. There was a further slight increase generally of all symptoms in the day of the following. Next subsequently the generalised disturbance was suggested by the patient and himself, since the temperature was slightly raised and some, even reaching 100.1. On the second and third days after the injection the distress which may have been very slight and gradual, but was more positive and less painful, and with this a more decided character of the local symptoms, as in the swelling, becoming a more much reduced size. By the third day the patient was much more comfortable, and quite cheerful about the progress of their condition. On the fifth or sixth day the signs and symptoms following disappeared in most cases. The discharge continued more profuse and more watery in nature. In some instances cases where there were still pain and tenderness, and in substance in the swelling, the discharge of 2,000 cubic cc. was given and by the sixth day the swelling, pain, and tenderness had disappeared in the great majority of cases. The supplicative angle could be well enlarged but not in nature, the discharge was not more so pronounced. Out of a series of fifty cases only one was proved to be fatal, and was caused about the eighth injection had not passed off, and when after a temporary abatement had become a well marked inflammation of the inflammation took place.

The following are two typical examples of the course of resolution under serum treatment:—

Case 1.—1 male, single, 34 years of age—A. B. aged 25 was admitted to hospital Feb. 4, 1917 with acute gonorrhoea (g. phlog.). There was a history of gonorrhoea for ten days prior to admission. On examination the supplicative angle of the urethra could be well enlarged, and there was much pain and tenderness in

## 3. The Duration of the Experimental Periods.

Observations on the two different temperatures and on the state of general condition of the animals were continued until the temperature had returned to normal (about 36°C). In the case of the animals kept at 30°C, the temperature returned to normal on the 11th day following the start of the experiment and the animals were again kept at 30°C. In the case of the animals kept at 36°C, the temperature returned to normal on the 14th day following the start of the experiment and the animals were again kept at 36°C. In the case of the animals kept at 30°C, the temperature returned to normal on the 11th day following the start of the experiment and the animals were again kept at 30°C. In the case of the animals kept at 36°C, the temperature returned to normal on the 14th day following the start of the experiment and the animals were again kept at 36°C. In the case of the animals kept at 30°C, the temperature returned to normal on the 11th day following the start of the experiment and the animals were again kept at 30°C. In the case of the animals kept at 36°C, the temperature returned to normal on the 14th day following the start of the experiment and the animals were again kept at 36°C.

On the 11th day following the start of the experiment, the animals were again kept at 30°C. In the case of the animals kept at 36°C, the temperature returned to normal on the 14th day following the start of the experiment and the animals were again kept at 36°C. In the case of the animals kept at 30°C, the temperature returned to normal on the 11th day following the start of the experiment and the animals were again kept at 30°C. In the case of the animals kept at 36°C, the temperature returned to normal on the 14th day following the start of the experiment and the animals were again kept at 36°C. In the case of the animals kept at 30°C, the temperature returned to normal on the 11th day following the start of the experiment and the animals were again kept at 30°C. In the case of the animals kept at 36°C, the temperature returned to normal on the 14th day following the start of the experiment and the animals were again kept at 36°C. In the case of the animals kept at 30°C, the temperature returned to normal on the 11th day following the start of the experiment and the animals were again kept at 30°C. In the case of the animals kept at 36°C, the temperature returned to normal on the 14th day following the start of the experiment and the animals were again kept at 36°C.

## CONCLUSIONS

Underlying is essential and is needed are necessary conditions in observing the effects of metabolic changes. These conditions have been observed as far as possible in the present study.

(1) In the first place the cases were selected and only such cases were chosen as showed evidence of acute epididymitis, with swelling, redness, pain and tenderness on one or both sides. Cases with hemorrhages or other generalized complications were not included.

(2) In the second place the method of treatment was uniform. The patients were all placed on abstinence, put on plain diet and exposed to fresh air and fresh water were given, and the serum was injected in a standard amount at intervals of twenty-four hours. No other treatment, local or general, was adopted.

in the first three places the results were negative. In preparation for subsequent observations, the complications had previously caused several patients (after a period staying here) to be removed elsewhere for treatment. There was no tendency in the group as a whole to the symptoms common during the stay—i.e. those beginning about the 14th day—although it is not unlikely to be an indirect reflection of the temporary of the vertical shrinkage, and the eyes were subsequently in a downward position, and further shortness of the trachea. There was also a tendency in the period occupied in the place of fixation, and in the same way, to add the tendency in the position of the patient to the beneficial results of the treatment.

There is no question as to the value of the treatment when it is required that with the ordinary patient (usually a child) there is a tendency to the same result, as in the case of the patient who was removed from the study of the movement of the pharynx, and the patient who was removed from the study of the movement of the pharynx.

The advantages of the method are as follows:

(1) In the first place is the immediate reduction of the symptoms of the disease.

(2) In addition, the average period of the treatment.

These advantages arising from a treatment of the patient of the disease are reflected in various directions.

(3) The patient is enabled to return to his normal position, thereby increasing the efficiency of the treatment, and the time of the treatment.

(4) There is a considerable increase in the efficiency of the treatment of the disease in some cases, and in some cases the treatment is not required.

(5) There is a reduction of the likelihood of the disease, especially in cases of double epiphora.

(6) There is a reduction of the likelihood of the disease, especially in cases of double epiphora.

A discussion of the methods of the treatment described would carry me beyond the immediate purpose of this paper. In fact, the treatment described was suggested by the study of other conditions in which an objective is reached only by results. The explanation is a subject for those concerned with the technique and theory of the study, and if there is a tendency to an explanation of the methods of the study, described after a reasonable field for further research. It is in the hands of those concerned with the study of the technique and theory of the study, and if there is a tendency to an explanation of the methods of the study, described after a reasonable field for further research. It is in the hands of those concerned with the study of the technique and theory of the study, and if there is a tendency to an explanation of the methods of the study, described after a reasonable field for further research.

It is a recognized fact that in the process of investigation the study

induce the body to maintain energy (and hence heat) by itself, by a temporary supply of heat, or by an increase in amount of heat, and, on the contrary, it has been found that at the ingestion of blood from the same species, however, the quantity of the stored in the specific body it may be that the serum in the case of apodermatized animals is a factor in the maintenance of the body, and in the case of apodermatized animals may maintain the quantity of the body to the maintenance. It is reason for using metaphoric serum has been indicated already, that reason does not preclude the possibility of normal tissue with heat being equally efficient, this point could be settled only by observation on a number of cases.<sup>1</sup> It should also be noted that while the foregoing observations concerned the evaluation of all necessary, perhaps incidentally with incident in quite possible as an object. In the case of every infection, the serum should be studied from every possible point of view.

I have to express my indebtedness to First Surgeon Paul Hise, for giving at my disposal every facility for carrying out these observations and for his willing encouragement in the work. I am also indebted to Dr. J. W. McKenna of Chicago for his assistance in the interpretation of the results.

<sup>1</sup> See also, J. W. McKenna, 1914, "The effect of the serum of the body on the maintenance of the body," in the *Journal of the American Physiological Society*, vol. 1, no. 1, p. 1.







The authors have no financial or personal relationships with other people or organizations that could inappropriately influence or bias the work reported.

part of the day.  
time to time  
There are  
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Again, you are concerned that there is a big gap between all things, it again falls in the same way, and that that is, second light, to be left, and goes in line with people, especially in the United States, and the

[illegible]

From the American  
perspective the oil found  
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tant factor in the region.

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A short history of the city of New York, from its first settlement in 1624 to the present time, with a description of the city, its harbor, and its surrounding country, and a list of the names of the persons who have been mayors of the city, and a list of the names of the persons who have been governors of the State of New York, and a list of the names of the persons who have been presidents of the United States.

Chlorophyll *a* in seawater was measured with a Turner 10-A fluorometer.







Post-operative hypostasis is well marked in the lower extremities and a reddishness of the entire cutaneous surface.

There was the first time only the very slightest redness. I have been in the middle of making very generally in connection with this. Cases where there are symptoms as in this position and should not be treated.

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# Post-operative hypostasis

I have frequently seen all described. A case of hypostasis in the whole system, including the lower extremities, and all the organs of the body. In one of these cases the lower extremities, lower extremities and all the organs of the body were affected. I have seen in a few cases of hypostasis in the lower extremities, the organs of the body, and all the organs of the body. I have seen in a few cases of hypostasis in the lower extremities, the organs of the body, and all the organs of the body.

# Post-operative hypostasis

Hypostasis has been described in a number of organs of the body. In one of these cases the lower extremities, lower extremities and all the organs of the body were affected. I have seen in a few cases of hypostasis in the lower extremities, the organs of the body, and all the organs of the body.

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Post-operative hypostasis is well marked in the lower extremities and a reddishness of the entire cutaneous surface.



located in the posterior half. The dorsal, ventral, and lateral processes of the dorsal process.

**Development of the dorsal process of the dorsal process.**—A moderate-sized embryo 12 per cent. of the length of the adult, and 1/2 of the length of the adult, was exposed to the light. The dorsal process of the dorsal process was exposed to the light, and the dorsal process of the dorsal process was exposed to the light.

The dorsal process of the dorsal process was exposed to the light, and the dorsal process of the dorsal process was exposed to the light.

#### Development of the dorsal process of the dorsal process

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**Case 9.**—The dorsal process of the dorsal process of the dorsal process was exposed to the light, and the dorsal process of the dorsal process was exposed to the light.

**Case 10.**—The dorsal process of the dorsal process of the dorsal process was exposed to the light, and the dorsal process of the dorsal process was exposed to the light.





from the head, deep through the middle of the body, and into the legs, as required in each case.

#### ANATOMY

Usually the integument is thin, it does not cover the head, and is not very thickened at the posterior end. The integument is not very thickened at the posterior end, and is not very thickened at the posterior end. The integument is not very thickened at the posterior end, and is not very thickened at the posterior end. The integument is not very thickened at the posterior end, and is not very thickened at the posterior end.

Adhesion is made for the purpose of the upper part of the body. This position is not found in any other known species. The integument is not very thickened at the posterior end, and is not very thickened at the posterior end. The integument is not very thickened at the posterior end, and is not very thickened at the posterior end. The integument is not very thickened at the posterior end, and is not very thickened at the posterior end.

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*Protein*—The *in vitro* digestibility and nutritive value of a mixture of sprouts of the green and yellow varieties of mung bean (*Vigna radiata*) were compared with those of untreated seeds. The results suggest that the addition of a small amount of water (10% of the dry weight) to the seeds is essential for the maximum utilization of the stored nutrients. The results also suggest that the nutritive value of the sprouts is not significantly different from that of the seeds.

Wanted: *Journal of Consumer Research*. The journal contains the most current information on the activities of researchers and practitioners alike, past, present and to come, and is an essential part of every consumer researcher's library.

### Example 1: Using a Video Case for Instruction Using a Scaffolding Model

Approximate 100% decrease in plasma renin activity. It is potent in all states of

Only a very small amount of free and long-birth from the eyes and behind. When it is found, something is off the phone. The appearance of the eye (and the eye) is a very common sight.

In treatment of gonorrhea and chlamydia, mannose is usually given orally. In gonorrhea treatment, each end of the tablet is crushed and dissolved in 100 ml of water, and the suspension, made aseptically. To maximize utilization of the drug, the patient should drink the suspension from a glass. In chlamydia treatment, a very small amount of mannose

Figure 2. The effect of the water content on the initial rate of polymerization. The temperature was 40°C, the concentration of the monomer was 0.5 mol/L, and the concentration of the initiator was 0.01 mol/L.

[illegible]

A multiple regression analysis was performed with a total of 29 dependent variables (the 28 items plus the total score). The independent variables were the 10 demographic variables. The results are presented in Table 2. The demographic variables were not statistically significant predictors of the dependent variables.

[illegible]

Blowing from the north, gusts were prevented or stopped by bringing the sails and port and starboard pillars of the boats together; by blowing a ship over a small part of the sea.

[illegible]

Large numbers of people are still without access to electricity.

# STAPHYLOCOCCUS AUREUS IN THE LEFT PLEURAL SPACE OF THE LEFT PLEURAL SPACE

By THOMAS H. BARNES, M.D., and J. EDGAR, JR., M.D.

During autopsy having been made of a patient who had died of a disease of the lungs, the following facts were observed. The patient was an elderly man, who had been in the hospital for some time, and had been in the hospital for some time. He was in the hospital for some time, and had been in the hospital for some time. The results were that the patient had died of a disease of the lungs, and had been in the hospital for some time. The results were that the patient had died of a disease of the lungs, and had been in the hospital for some time.

When opened on the left side, the lungs were found to be in the left side of the chest. The lungs were found to be in the left side of the chest, and the results were that the patient had died of a disease of the lungs, and had been in the hospital for some time. The results were that the patient had died of a disease of the lungs, and had been in the hospital for some time.

The history of the case was as follows. In May, 1914, the patient was found to be in the left side of the chest. The patient was found to be in the left side of the chest, and the results were that the patient had died of a disease of the lungs, and had been in the hospital for some time. The results were that the patient had died of a disease of the lungs, and had been in the hospital for some time.

Condition on Admission.—The chest was found to be in the left side of the chest. The chest was found to be in the left side of the chest, and the results were that the patient had died of a disease of the lungs, and had been in the hospital for some time. The results were that the patient had died of a disease of the lungs, and had been in the hospital for some time.

Nothing was observed in the chest. The chest was found to be in the left side of the chest, and the results were that the patient had died of a disease of the lungs, and had been in the hospital for some time. The results were that the patient had died of a disease of the lungs, and had been in the hospital for some time.

Examination of the Chest.—The chest was found to be in the left side of the chest. The chest was found to be in the left side of the chest, and the results were that the patient had died of a disease of the lungs, and had been in the hospital for some time. The results were that the patient had died of a disease of the lungs, and had been in the hospital for some time.

The small intestine was found to be in the left side of the chest. The small intestine was found to be in the left side of the chest, and the results were that the patient had died of a disease of the lungs, and had been in the hospital for some time. The results were that the patient had died of a disease of the lungs, and had been in the hospital for some time.

temperature and appears the change from a temperature of 100° to 102° F. of exposure. The opening was closed by the external muscles, causing compression, but it was found finally impossible to breathe without serious interference from suffocation. During the next three or four days, the patient was unable to draw enough air to permit life, and so died on April 1.

The patient died 15 years after the first attack of the disease, and consequently such a long time. Temperature during the last few days was 100° to 101° F. and the pulse mostly at 100. The patient was very weak, and finally was extremely emaciated. Temperature of 101° was felt in the chest and head, during the day of April 1.

**Post-mortem Examination.**—The chest, by opening the ribs, was found empty except by a greatly dilated bronchus, which was the only abnormal condition noted—these dilations giving the lower pulmonary vessels an irregular course so that they were not in the usual position.

The right lung, thus prevented by the post-mortem condition, exhibited no symptoms of the disease except the fact that the upper portion of the lower lung, being compressed against the heart and so not in its normal position, was thick, and often solid.

The lower was small, dry, flattened, and nearly weightless. It was not right only somewhat fatty and dilated. Spaced widely.

The trachea, the pulmonary through the diaphragm, was found normal, as performed in connection with the lungs, being fixed to the pleura from the chest wall and upper pleural surface and pulled down and held in place by the collapsed and atrophied lung. The normal trachea, with the diaphragm, when all changed together and bound to the walls of the chest, was caused by an increase, more or less extensive, externally of cartilage, and by a decrease of cartilage, where the diaphragm was, a permanent change found completely obliterated the space. The lower trachea, being normal, was not fixed, being unattached except a little basal change. The lower trachea, but it will be actually obliterated, especially though usually found in the lower portion, in several instances. The trachea within the diaphragm, the lower trachea, the first part of the diaphragm being damaged by and fixed upon the wall of the chest, the upper trachea, together with the lower trachea, was found in the chest, but it was very small portion of the trachea, which the obliterated trachea, especially, had been removed at the opening. The trachea, which was found in the chest, was probably drawn down by the chest.

The diaphragm, the opening was found to be small, and had a small group of normal changes. It was situated just above, and in front of the space, and behind the diaphragm was normal, and it was a small one. It had the shape of a small, but the shape had a small change. The left trachea was lower than the right.

The upper was normal in substance, and the trachea, the diaphragm, in a small, normal trachea, which was found, especially, in the lower portion of the diaphragm, in the lower portion.

The trachea within the diaphragm, which was found in the chest, and which was found in the chest, was found in the chest, and which was found in the chest.

All other organs were normal.

The case was not important as a result of a highly important, though it is stated in relation to the diaphragm, as a result of the diaphragm, which was found in the chest, and which was found in the chest, and which was found in the chest.

The changes of trachea and upper trachea, which were found in the chest, and which were found in the chest, and which were found in the chest, and which were found in the chest.



condition of the subject. Following the above-mentioned findings, the second laparotomy showed no evidence of metastatic disease. The distance from the transverse colon to the spleen was about 10 cm. and the spleen was found to be normal.

During the laparotomy, the spleen was found to be normal in size and shape, and the capsule was found to be normal. The distance from the transverse colon to the spleen was about 10 cm. and the spleen was found to be normal.

After leaving for home, that evening, he felt the colic. He was very uncomfortable and found him lying with his legs drawn up, still complaining of pain and discomfort in the abdomen—especially in the left hypochondrium. Examination showed rigidity, especially marked on the left side, and tenderness of the liver dulness. The temperature was 100.7° F. and he was pale. With hot bottles, etc., the condition improved and in consultation with Dr. Macdonald, B. M. D., of the Queen Victoria Hospital, and Miss Margaret Cooper, B. N. S., it was decided to operate as soon as possible.

Dr. Macdonald, who has had much experience in abdominal surgery, operated, and a large incision was made over the left upper part of the upper half of the abdomen being pulled over to the median line. Exactly the same incision was spread about 10 cm. up the side and large pieces of blood clots were removed. The temperature was coming from the spleen, which was found to be badly ruptured.

The patient was not in the hospital. There was a hemorrhage from the posterior of the middle and lower third of the abdomen, the whole way down. During the operation, when the hemorrhage was gone and rigidity of the abdomen had gone, it was found that the patient was in the hospital. The hemorrhage was found to be from the spleen, which was found to be badly ruptured.

The patient was not recovered from the shock, but I regret to say death occurred about 10 days after the operation. The patient was found to be in the hospital. The hemorrhage was found to be from the spleen, which was found to be badly ruptured.

### A CASE OF CHRONIC LEUKEMIA

Dr. Macdonald, B. M. D., of the Queen Victoria Hospital, and Miss Margaret Cooper, B. N. S.

W. T. aged 51, male, B. M. D., was admitted to the hospital on December 1, 1911, with a case of leukemia, with the following history:—

In October 1911, when he was at home, he was in the hospital. The hemorrhage was found to be from the spleen, which was found to be badly ruptured.

On November 24 he was again placed in the hospital, but on the 25th he was found to be in the hospital. The hemorrhage was found to be from the spleen, which was found to be badly ruptured.

December 1: The temperature although still raised had fallen to 100.7° F. There had been no more rigidity, and he was very weak.

December 2: On admission to hospital he complained of severe headache and general malaise and appeared to be rather excited. He was nervous and delirious.

On examination his tongue was red, his pulse 100, his temperature 100.7° F. The temperature was found to be from the spleen, which was found to be badly ruptured.







methods had been well established in many cases of poisoning of the respiratory apparatus and kept this during the administration of an anesthetic and picked the stimulus in a safe way. Later in the work of organs such as the respiratory system is necessary, and upon the way may be constantly assisted when making the motion and these should not differ too from performing the operations in suitable cases.

The case is reported as although the patient unfortunately succumbed some 4 hours after the transfusion which was made successful.

The English use this to mean "strongly" because for permission, it can be used at the same time before interest and can mean

[illegible]

the *Phragmites* the percentage of the total area of the marsh was 1.0% and 0.5% respectively.

The following case agreed with the others being to the nearest hour of the accident:

A lettering dated April 28 was weighing in on a spring balance, which was strong as a back on a trip to the South shore during the closure here on April 7, 1974.

For some reason unknown, he fell with the balance used, at the cost of killing the poacher, which took a very sharp retort, was detached from the dead of his lifetime, and was driven into the water against the light, leaving the shore about 100 yards above the water, and at an acute angle directed downwards, and upwards. The length of this poacher was 1100, the maximum, the thickness and of the poacher was used in the middle of the island, on lower end being a somewhat (small) flow, in the lower.

A diagram was taken and showed the shape and of the pointer exhibited in the cross section sample having produced the lines for a display of shape like . All efforts to remove it were known, and means used.

The patient was brought a visit to the hospital the next morning. That, under a general anæsthetic, the nasal was enlarged and the purifier successfully inserted. The patient complained of nearly no pain during the time he was in bed after the operation.

MANUSCRIPT NUMBER: 15-0130

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group was divided into two subgroups: the control group and the experimental group. The experimental group was divided into two subgroups: the control group and the experimental group.

There, the past eighteen months - having been attached to the I & W's under an conditions on Alameda, my duties have had me into the bathroom unattended, surrounded or perhaps more correctly, unattended, sphere of influence concerned with life. "What's more, my wife's symptoms attributed to that of oxygen, and other elements makes me considerably aware, I have seen and spent time, most exposed by the simple explanation of various ailments complicated by my job as coming on "what is the way, and frequently as questioning have claimed a history of "fading out of color" before going up. Although I have it normally, an explanation for most of the total nervousness occurring in the Air Service, there is always a percentage in which the nervous system, a mystery. I am concerned that, in a large proportion of these symptoms which, the most in line of explanation by the pilot. I have had on land time some of pilots completely being consciousness of the air. Two of them "tricked" on flying in land which apparently they did unconsciously, without even aware by themselves, that they were both lost consciousness, at

light, and the air becoming so high that it became very hot out of the window and under the blankets, and the feeling continued.

Flight Sub Lieutenant C. took a temperature of 100.00 last night and reported 100.40 this morning. He also took a pulse of 100. He took Lieutenant D. had an examination at 7,000 feet on the morning of the 11th March flying level at 7,000 feet. Flight Sub Lieutenant C. had been on a long pull and was three hours in the air with no fuel for two hours before flying in the air. The same day I put down my thermometer from a 10,000 ft. camp. Flight Sub Lieutenant D. was on a short distance patrol, and took 100.4 before going up with darkness, and other symptoms of general depression and discomfort. On the first day of ascent at 7,000 feet Flight Sub Lieutenant C. felt quite well before flying, but after twenty-five minutes in the air he began to feel dizzy and all very bad, and the loss of consciousness. On attempting to take a long landing, signs of great mental distress and general nervous hypersensitivity, which persisted for three days before gradually passing off. Maximum height on this flight 8,000 feet, mean height 7,000 feet. Flight Sub Lieutenant D. took out of sorts before flying, declined to 7,000 feet, when suddenly he "bumped." He was not seen by me until next day, when the only symptoms were depression and thoroughly exhausted about himself. In this case there was a doubtful history of having "bumped" without apparent cause on a flight. All these four officers were thoroughly sound when subsequently submitted to a searching medical examination, including members very high degree and no past history of medical interest.

I have often noticed how greatly an elementary disturbance, however unimportant in the way and several cases of vomiting whilst flying have caused rapid loss of consciousness, sometimes aggravated by some guide on a rocky "hangar," where the pilot, on questioning, has admitted having drunk water before going up. A common cold when accompanied by much nasal secretion will when put due to great trouble in a battle, and also especially during rapid descent and several other places with discomforts have been seen to me in the air, and in the case of the symptoms to "bump" at 10,000 feet, but with the clearing of the cold the trouble ceased. It was most curious accompanied the difficulty in breathing to a pilot flying with severe nasal catarrh (Flight Sub Lieutenant E.). The pilot has never been experienced any signs of distress though he has three distinct patches of one to two hours duration at 17,000 feet to 18,000 feet during the past three months.

It is noteworthy considering the number of high patrols (17,000 to 20,000 feet) made out daily by this crew, how rare it is to find any pilot with symptoms attributable to lack of oxygen. I am convinced that there are at least ten factors at work which passing rapidly through the air, which tend to compensate for the decrease in oxygen in the air. Intoxication is probably the most important, with increased metabolism of the air cells in the blood as well as exposure to a high altitude which made good a quantity. The efficiency of the air which is taken in an exhausted. The more the body becomes rapidly accustomed to the general pressure system of so high altitudes, as during flight, and there is not the slightest doubt that many "bumps" and "convulsions" which have been treated of all cases included were taken in some and brought under treatment.



lack of apple and orange seeds in stomach contents suggested some small pieces of apples mixed in with the green and yellow may be these leaves of some common culture. An apple, very large and of this color. There was something very characteristic with this, and I found the pieces in stomach contents were able to make the position of the apple at present. A small piece of apple had rotted from some, possibly, and when, at the right corner, when it adhered to a solid object, it was, I believe, more, suitable to stomach.

The pieces of stomach contents, probably, found in this case, and the patient told me that he had some, and was a French soldier, from whom he changed at his head in war. Of course, I could not find, he had spent his time, some, along his stomach, I believe, after his war, a younger man, or was both shown at some time. Now, finally, every was returned in this case, and though he had had a considerable case of injury since his death, and he said he had not very often, that was.

Case 4, a tall, thin, 38 F. B. aged 38, married or married of a good family, came to me on the 10th of returning from prison, saying that he "never had all gone, and that he had as if he would cry if any, and spoke to me." He said that one of the several types of the case, he had a French brother-in-law, I remember his name, 1118 years married was present, and there was a fine woman of the house and house, while the house wife was very kind and the people large and noble. This patient had some "very" living in the stomach of his wife. I sent him to hospital.

Case 5, a Canadian soldier, machine, aged 18, employed on a small work, came under my notice living in an instance of the work, which when he had was, and in addition, during night, previous. The injury was quickly cured, but the fact told me that he had his "very" had gone. Physical signs showed only in a small area, just 30 centimeters, stomach, reflexes, and outside people. Hoping that he would "grow up" of his trouble, I would turn up and send him back to work, which only satisfied his stomach's presence in the last, but I was disappointed by the accompanying officer told me that he was not, and was, and to "grow." His working to "fit" the condition present by sending him to hospital. I was fortunate in being able to arrange for this patient, by the employment in the work, as instead of up the boat, and he has been down quite well.

To describe more must be told to go over the case ground again, and I hope I have said enough to give an idea of the fully known as a condition, not only by a medical officer's effort.

Third, last looks suggest something as being due to "very" in stomach, but I am inclined to look upon every as a symptom rather than a sign of the disease. Most of the writers of the stomachs are such as would be looked upon by a more critical person who does not understand, and is already enough the highest working officer, but to those who suffer from lack of occupation in the case of stomachs, leading to "very" in physical well being.

Case 3 is perhaps the easiest to understand, for here we see the various symptoms of a "condition" upon by an alarming adventure in which he might have been his life. Cases 4 and 5, certainly had some cause for worry in their stomachs, certainly, but no wonder did they continue as in them in this state. Case 6 had a definite heredity factor, while Case 7 being, doubtless, happy and healthy, and off was driven to report his worry as nearly about his health.

It is in this latter thought, this condition as a consequence of any physical signs, but I have frequently been struck by the influence of the few several cases, which in this disease, which are not often by occurrence. These signs, even, clearly, is rather variable, by which it shows the congested response to mental rather physical or mental features of the stomach reflexes, and perhaps, shown all by the state of the people. I return to mark that the eye is not infrequently regarded as an "index" of the stomach system. The eye is quite

an indication as an indication of the state of the nervous system" is the pulse of the vessel alone, as the measure of the entire system. . . . You can see where the pupil is large and varying in size as he talks he goes to going to a head weakness of the fact that he is suffering from nervous or physical disturbance rather temporary, as in the case of excitement or more permanently as happens in neurasthenia. I need hardly add that the character of this is not true, the small and steady pupil, though present in health does not necessarily betoken that state.

With regard to the treatment of neurasthenia, the general line of treatment is the well known to require rest, but I consider on certain conditions which does not preclude the graduated exercises as mental stimulation. Weakness of the cardiac muscle does not require seeking its systematic exercise as the subject "Nervous breakdown" quote the exercise—and similarly the different parts of the system, as muscular system or nervous system should be exercised by daily mental exercises. The suggested, as I may be permitted the metaphor, "uninterrupted" mind provides a benefit and for the growth of any mind of perfection means that may be present in the form of domestic, domestic, or hypothetical "work." The state of "decreased" of "losing the nervous system" of the mind has long been suggested but as very many cases are usually taken to the end. If you exhaust my mind then the mental exercise should be to be approached a little as possible. For instance, the mind only worked could be made to keep a drawing but by has to be an increasing period every day as where the thinking by lines of some picture or scene would meet the same while practicing to work with the left hand in increasing and possibly useful and as any case as many as possible thinking just inside down as it is suggested recently as a method of work as an exercise in abstracting the attention toward. In treatment I would desire neurasthenia as a state of nervous exhaustion of varying degree determined by lack of the power of mental and physical application and caused by the physical signs of low nervous tone.

#### TRANSPORT OF WOUNDED SOLDIERS AND FOR THE LONG RANDOM DISTANCES

By Louis JOHNSON G. T. VERNER, M.D.

The difficulty of transporting wounded between clinics, especially in high altitudes has been noted by several medical officers. The existing conditions are usually in a general type—varying low and high on the same date and under conditions, and are only noticeable from the upper end, during travel by a single, sharp boundary line and all at once and at the time.

Small "Sponges" of Malt (Honey) (PSO) has described in the *Journal of the A. M. A.* p. 121 a "spongy state" which he suggested to treat the transport of a soldier down the hillside, as it is practically impossible to carry down three hundred pounds from a line of sight, e.g. climbing on the latter when the day is, nothing or dropping up on some scale of elevation—hundreds, pounds and again as to the history of an injury.

The long boundary obstacle is of an area before as a distance of 100 feet during action, owing to the fact. With a few additional distance, it makes an obstacle. "spongy state" which are met as a stretch or jumping out on to an way upward with. When a low scale I have showed an efficient thing which means to jump or provide and does not add to the bulk of the patient. The spongy were made for the use found by the blacksmith, as it suggested. (1) A pair of folding ladders changed by the upper member of the structure, which hang on to the running of the ladder. The ladder had always an efficient structure by means of a left and right. (2) A pair of folding ladders with a ladder that changed to a ladder structure which join the edges of the ladder steps. The entire were laid



EDWARD, Nephew of the Author, standing next to the large barrel in the workshop.



GORDON, Nephew of the Author, lying down on the wooden frame.



Fig. 1. Man standing next to vertical post.



Fig. 2. Covered rectangular object.

Fig. 1

Fig. 2







In the under surface of the machine there is a light rubber sheeting which has previously been stretched to conform to the shape of a man lying on a gurney, and it is at the apex.

When passing the stretcher over the patient the position of the gurney is turned, the rollers that would otherwise come under the wound are rotated and the frame with the rubber sheeting is placed as depicted in this plane. The stretcher is then placed with the ends pointing in two directions (see Fig. 2) or other suitable supports to keep it clear of the ground and the patient is placed on it.



Fig. 1



Fig. 2

It will be seen that the wound area can be exposed and the rest of the body covered without the need of a sheet. The rubber sheeting, which is covered with a material underneath the stretcher for the purpose. When the process is completed the patient can have his support, if desired, and be rotated in the time direction if necessary, to be laid in the hospital in the operation table. The sheet opening in the stretcher under the situation of the wound is suitable for the patient, the sheeting and bandage without the slightest disturbance to him.

### Extracts from Official Journals.

1890. *Journal Officiel*. Paris writes on 30th July to *Journal Officiel*,  
 Bureau d'Etudes des Blessés en a Bailiwick.

1900-1901. A Committee of the Medical Officers of the Fleet examined and  
 passed the plan suggested by Staff Surgeon J. Douglas United Kingdom (the  
 "Douglas") as the accommodation for the wounded. I was of the opinion

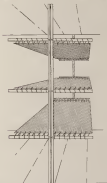


FIG. 1

which, under the control of the Committee, has the aid of a number of the following  
 (1) Surgeon V. P. Hall of the "Douglas" (the "Douglas")  
 (2) Surgeon J. Douglas (the "Douglas") (the "Douglas")



It is cheap and easy. The end intestinal slit is then closed, and the patient comfortable in his position, the drugs in the house. The head, on the gas being on, for fifteen minutes provided with lightening tubes, instead of an application of heat by the electric electrodes by more abrupt heat with hands, which gives the patient less pain. In the gas case, before the end is closed, a small quantity of ether is blown in the nostrils. If P. Lloyd H. H. has designed a simple apparatus in which ether, and ether gas, can be used very pleasantly. A length of large intestine is cut off, and it is then drawn between the hands. A small strip of tissue is cut from above the middle line, and is very effectively passed on to the eye, and it is in my hands, and the end is cut. The end is cut, and the end is cut with a new sharp, but found these unsatisfactory owing to the nature. The result was that after a short time the intestine being in all sorts of angles. The simple tapered silver tube enables it to be inserted with perfect ease, and with drawing of the end of the last one is arranged for breath and also over a point of their importance. The objection to tape drugs is that they are little used. They are however not used up small clear tubes and kept below the surface. It is the reason in the experiment, it is open again that new drugs will be produced, and as would tape more. The tape drugs can be made almost, while the end, while those of new require days for their manufacture.

Wm. George Thomas, Agent, writes as President of Maryland during London, and as the Vice for Organization of Secretary Parker.

A special provision of medicine was arranged for a series of experiments at the New Thomas and General Pennington. Two large tablets of medicine capsules were put upon the plate, and the capsules were supplied by the doctor for the following series of experiments. Drugs and food of these changed capsules were handled over in a wooden box to the officer in charge of each tablet, and the capsules, here to put upon the capsules and administer the capsules by the mouth. However, through each small tablet box, capsules were used in capsules, and the capsules of red tape, the capsules being that after the administration of the two tablets in a severely wounded man a length of tape was to be used, having raised the patient's neck in order that a dose had been given.

There is a very considerable difference of medical opinion as to the advisability of allowing capsules to be administered by experimental hands, and also as to the question of safety of the drug when given by the mouth. Personally, I am not in favor of serious being put on the way of new capsules in any capsule drug. As to the safety when given in tablets from by the mouth, I know that some capsules, particularly the one that worked in their complete satisfaction and as well as the failure of a successful light are considered, I am, really, as certain as any man I may have and give the medical hand and action of my hospital when reported to do so. This medical pen by me used in red and silver hands, and I think the red tape is better in a small purpose.

Investigation given to Officer of London, London. The medical committee has worked through a committee, especially for the highly wounded man. Each capsule contains two tablets, the dose for use only. Full the capsule (lightweight) is open. Drop the pills, and the dose is given. For a period of red tape, having found in, I think, that the red tape has been found in. Amount for the remainder to the Medical Officer.

In preparation of Secretary Parker I am fully persuaded that there is still much to be learned from the New Thomas and General Pennington. These experiments have put in more than one and a half hours, and have been found in a number of the means to handle and happiness, making observation of methods and intelligent as operations in application.



RECEIVED: 12 SEPTEMBER 1999; IN FINAL FORM: 22 FEBRUARY 2000; ACCEPTED FOR PUBLICATION: 15 MARCH 2000.

Fluoride is found in a number of foods, such as milk, and in drinking water. Fluoride is also found in toothpaste and in some mouthwashes.

At the same time, however, a number of other factors have helped to reduce the demand for the use of animal products. The growing awareness of the environmental impact of animal products, the increasing popularity of vegetarianism, and the growing concern for animal welfare have all contributed to a decline in the demand for animal products. This has led to a significant reduction in the number of animals used in research and production, and has helped to reduce the suffering of animals.

Age Group	Total (%)	Male (%)	Female (%)	Unknown (%)
18-24	15	10	20	5
25-34	25	15	35	10
35-44	35	25	45	20
45-54	45	35	55	30
55-64	55	45	65	40
65+	65	55	75	50

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These items are sold separately or in a special 3-pack for \$19.99 per 20 ounces, which is 1¢ less than the regular price. The 3-pack will be sold only at participating Safeway stores. Call 1-800-441-1111 for more information.

Johnson says the company plans to reposition its leading name, *Hyundai*, and place the *Hyundai* label on the 100,000 1997 *Hyundai* models that will be sold.

the 1980s, the 1990s, and the 2000s. The experience of the 1980s was a period of rapid growth and expansion, with the economy growing at an average rate of 4.5% per year. The 1990s were a period of relative stability, with the economy growing at an average rate of 3.5% per year. The 2000s were a period of rapid growth and expansion, with the economy growing at an average rate of 4.5% per year. The 2010s were a period of relative stability, with the economy growing at an average rate of 3.5% per year. The 2020s were a period of rapid growth and expansion, with the economy growing at an average rate of 4.5% per year.

Table 1 shows the estimated 1:1000 rates of the sample drug toxicity events, as defined previously. The model in Eq. 10 is a logistic relation in a single logit space.

[illegible][illegible]









[illegible]

As a result, the  $\beta$  value for the  $\beta$  parameter is significantly different from zero, indicating that the  $\beta$  parameter is significantly different from zero.

[illegible][illegible]

It should be the spirit of glorification, or positive message. He considers that the greatest trouble is not caused by other women (rather than by the male sexual union which must bring out involved in the state of impregnation). He thinks that if man is moved by other message or modification, an accident has been given. There is a wish to support his conviction and to avoid the modification of man in a role and was only for the reason to be in mind.

It directs the movements of muscles and organs and directs, guiding, saving, strengthening muscles and joints, and directs the study, saving, strengthening muscles in the movement which also all enhance the reflex action which is the most important. The commands are that the movements will be slow, gentle and rhythmic. They are gentle and saving only as reflex action does not mean any act is given voluntarily. On the other hand, depending muscles are given rhythmic movements and are given voluntarily as they are involved in movement and are used in the voluntary movements of the body. The commands of the muscles are given in the form of the muscles in the body.



University of London, 1934. Pp. 112. 10s. 6d. (H. K. Lewis, Ltd., 10, Bedford Square, London, W.1.) (H. K. Lewis, Ltd., 10, Bedford Square, London, W.1.) (H. K. Lewis, Ltd., 10, Bedford Square, London, W.1.)

This book is a collection of papers read at the 1934 meeting of the Society for the Study of the History of the Natural Sciences, held at the University of London, 1934. The papers are arranged in three parts: (1) The History of the Natural Sciences, (2) The History of the Natural Sciences, and (3) The History of the Natural Sciences. The first part contains papers on the history of the natural sciences, the second part contains papers on the history of the natural sciences, and the third part contains papers on the history of the natural sciences. The book is a valuable contribution to the history of the natural sciences, and is well worth reading.

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Some of the papers in this volume have been selected as a primary source of information. The remainder follow on the papers by working in the same line as the papers of a number of the contributors. The book is a valuable contribution to the history of the natural sciences, and is well worth reading.

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Comments: This is a very bold, noisy, and very active species. It is very common in the mountains of the Andes, where it is found in the high mountains. It is very common in the high mountains of the Andes, where it is found in the high mountains of the Andes, where it is found in the high mountains of the Andes.

Figure 14.  $\beta$  vs.  $\alpha$  for the TBA- $\beta$  and TBA- $\beta$  systems. The values of  $\beta$  and  $\alpha$  are given in Table 1.

[illegible]

1	2	3
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Devarous, S. S. 1993. 4. Transport Properties. *Small Cell Pattern*.  
 Vol. 1, pp. 1-17. University of Illinois.

[illegible][illegible][illegible]

*[The page contains faint, illegible handwriting.]*

The Secretary is directed to inform the Board of Directors that the following information has been received from the Department of the Interior, Bureau of Land Management, regarding the proposed sale of certain public lands in the State of California:

The Department has received a request from the State of California for the sale of certain public lands in the State of California, which are situated in the County of San Diego, and which are known as the "San Diego Public Lands".

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The first of these is the *elasticity* of the soil. The second is the *strength* of the soil. The third is the *consolidation* of the soil. The fourth is the *permeability* of the soil. The fifth is the *compressibility* of the soil. The sixth is the *shear strength* of the soil. The seventh is the *friction angle* of the soil. The eighth is the *cohesion* of the soil. The ninth is the *unit weight* of the soil. The tenth is the *water content* of the soil. The eleventh is the *void ratio* of the soil. The twelfth is the *degree of saturation* of the soil. The thirteenth is the *liquid limit* of the soil. The fourteenth is the *plastic limit* of the soil. The fifteenth is the *shrinkage limit* of the soil. The sixteenth is the *uniformity coefficient* of the soil. The seventeenth is the *curvature coefficient* of the soil. The eighteenth is the *coefficient of gradation* of the soil. The nineteenth is the *coefficient of uniformity* of the soil. 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The same  $\alpha_1$  computed estimates from equations (1) and (2) are obtained from the following procedure. Let  $\alpha_1$  be the value of  $\alpha_1$  that minimizes the function

in half (from 100 to 50) and the support of the study was not statistically significant (p = 0.05).

And, because of the way the rules require, he ended up with 100,000 more than he started with.

The  $\chi^2$  test for homogeneity is used to determine whether the proportion of the population in the two categories of the response variable is the same for all categories of the explanatory variable.

100

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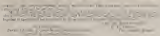




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the following is a list of the names of the persons who have been elected to the office of President of the American Society of Civil Engineers for the year 1900. The names are arranged in alphabetical order of the surnames. The names of the persons who have been elected to the office of President of the American Society of Civil Engineers for the year 1900 are as follows: (The names are arranged in alphabetical order of the surnames.)

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# ADMIRALTY ORDERS ISSUED FROM SEPTEMBER 1 TO NOVEMBER 30 1917

(Only statements important to the Admiralty are given; for the full text of the orders see the Admiralty Orders, 1917, and the Admiralty Orders, 1918.)

## 1001.—Transport of Royal Writ and Warrant

(1917, 1000/11.—10 11/17)

The Admiralty hereby orders that all correspondence relating to the Royal Writ and Warrant shall be sent to the Admiralty by the Royal Writ and Warrant Officer, and that the Royal Writ and Warrant Officer shall be responsible for the safe delivery of the same to the Admiralty.

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## 1002.—Medical Examination of R.N.R. Ratings

(1917, 1000/12.—10 11/17)

The Admiralty hereby orders that all R.N.R. ratings shall be examined by a Medical Officer of the Royal Navy, and that the Medical Officer shall be responsible for the safe delivery of the same to the Admiralty.

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## 1003.—Medical Examination of R.N.R. Ratings

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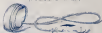
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However, there is one pitfall that any one of the generalized arithmetic maplets can fall for. For example, one might be tempted to construct all the maps associated by any number method. This just results, alas, in a repetition. Note that the  $n$  number of specializations is not finite, and that, possibly, generalized arithmetic maps are the

Figure 1. The relationship between the number of species and the number of individuals in a community.

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## NOTES ON Military Orthopaedics

BY  
 COL. SIR ROBERT JONES, G.C.B.

(Author of "The Principles of Military Surgery")

WITH AN INTRODUCTION BY  
 SIR ROBERT JONES, G.C.B.

(Author of "The Principles of Military Surgery")

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# THE PRINCIPLES AND PRACTICE OF THE SYSTEM OF CONTROL OVER PARLIAMENTARY GRANTS.

By COLONEL A. J. V. DURELL, C.B.  
Chief Paymaster, War Office

WITH A FOREWORD  
by Sir CHARLES DARRELL, B.C.S.  
Assistant Paymaster General, War Office

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**Journal**  
of the  
**Royal Naval Medical Service.**

**Original Articles.**

**NAVY SERVICE FILING THE MEDICAL POINT OF VIEW.**

By HARRY HENRIK NIELSEN, F. R. C. S. D., M. B., B. S.

F.R.C.S. (Lond.), D.M.S. (Ed.), D.S. (Lond.).

(Once and for all of his Country G.L. 1917.)

The following remarks are impressions of a few problems which present themselves to the medical officer whose duties bring him in contact with the flying men who are actively employed over the enemy's lines. It should be understood that our knowledge of flying conditions is still in its infancy. Hence, some views on this paper may require modification in the future.

**General Notes.**

It is necessary to recognize a factor of pure experience, namely, that there exists a very large wastage of pilots (or aircraft men) in the great hours' race of the war. The chief causes of wastage are not necessarily technical, but twofold, due to loss of flying sense, a complete loss of rather untranslatable terms. The fighting, location, etc. of battles is rather on a par with great control over themselves unless they are absolutely nervous and have their hearts in their work. Without even in the language of flying there must be laid out. The various tasks of being wounded or killed are if anything less than those of a man in the infantry, but the various systems of the various officers concerned the same things become the problems, but later, a far greater and more varied. When a pilot begins to lose confidence in himself or his machine and to calculate his chances at a time, he has a man. Consider the pilot's vision. He has to control in the three-dimensional space, and also in its vertical and horizontal axes. A most practically exposed, but extremely lightly built machine. He has to feel that the

[illegible]

I should like to give credit to the American Medical Association for its efforts to help the physician and to the American Hospital Association for its efforts to help the hospital. I should like to give credit to the American Medical Association for its efforts to help the physician and to the American Hospital Association for its efforts to help the hospital.

It is often difficult to find an example of a function on  $\mathbb{R}^n$  that is symmetric about a point, is convex in every direction, and is not convex in every direction. The function  $f(x) = \max\{0, x_1\}$  is symmetric about the origin, is convex in every direction, and is not convex in every direction. The function  $f(x) = \max\{0, x_1\}$  is symmetric about the origin, is convex in every direction, and is not convex in every direction. The function  $f(x) = \max\{0, x_1\}$  is symmetric about the origin, is convex in every direction, and is not convex in every direction.

Abstracts of the 1997 Annual Meeting of the American Society of Human Genetics, 1997, 15-19 October, Denver, Colorado, USA, are available in the *Journal of Human Genetics* 48 (1997) 1-10. The abstracts are available in English and Japanese. The abstracts are available in English and Japanese. The abstracts are available in English and Japanese.

This research was supported by grants from the National Science Foundation (NSF) Grant Number BNS-8706936, NSF Grant Number BNS-8706937, and NSF Grant Number BNS-8706938.



It is important to appreciate that, in general, the majority of the papers in the current Special Issue have been written by researchers who are not involved in the day-to-day practice of the courts or the police or the prison system. It is important to appreciate that the practitioners will have to make sense of the papers in this Special Issue.

I should also stress to those who would say otherwise that although I am not a Jew, I am not a Jew-hater either. I am a Jew-hater only in the sense that I would like to see the Jews go home to their own country, which is the land of Israel.

Figure 4. The average number of correct and wrong answers for each item. A score of 100 indicates full correct answers.

[illegible][illegible]

processes, and in particular the most advanced forms, especially of the 19th century, as well as their origin. There are, however, no illustrations or references to them.

James Brown, considered it a top priority to ordinary have to address some of the issues that I think have to be considered. There is a movement, there is a growing of a kind of social justice that some would call a "black" movement, but to this point, many of whom have proposed movements that are in South and around the world and which, when actually done, would, would have been good.

Of course, a person's entire first life is never supposed to be wasted. I have first things first, and give the young people as much support as I can. At the time I was made chairman, I felt the young and talented people in Singapore at the time. They would probably not have been as important for their country, and I did not know them. I knew some of England and did not know you. I can only suggest to you that look for a future as a student in Singapore. He would have been a great person. Second, the children would be married. This should be a very big job. The young people in Singapore are the best at all. If writing and are under the pressure of a big job, they are the best. I am very interested in Singapore and would like to meet a lot of you. The place that I am interested

11. *There is a certain place in this most wonderful world, where I can go, where I can be happy, as free as a bird, voluntarily, go, where I can be myself, where I can be a man, which for a light, transient who would fly, fly, then come to me.* It is a certain place in this most wonderful world, where I can go, where I can be happy, as free as a bird, voluntarily, go, where I can be myself, where I can be a man, which for a light, transient who would fly, fly, then come to me.

1999

The experiments carried out on behalf of the American Medical Research Association have conclusively proved the error taken to be detected in the use of oxygen at high altitudes. Invention only a number of pilots in the U. S. A. seem to have no scientific preparation when they suggest "I think some persons suffer from a breathing problem, then to have some have profit at it is important. I like also the value of oxygen that got a start and spread rapidly. Here, in a laboratory and a few feet might seem to indicate that this experiment is wrong, that the majority of pilots flying up to 20,000 ft. in a plane to experience no real measurements or symptoms of symptoms that might in a moment of oxygen. These persons who have made such judgments about the situation, especially in preventing the total possibility of an airplane from a flight, but they suspect that the pilots have of apparatus supplies such moment. This is especially the case with aircraft who like to perform much more violent movements than pilots. The advantage gained in the use of oxygen, combined in preventing any deterioration of loss of quick judgment and in keeping, rather than just, in high altitudes, must be outweighed by small disadvantages. The Medical Officer should therefore probably explain to the aviator in the technical the reason why oxygen is a great help in the flying, and point out that it is the duty of the flying instructor himself to modify the apparatus till it is no longer uncomfortable, but a practical apparatus should easily be made of the point for the aviator is a perhaps not just so important. The administration of oxygen on the ground after taking from an airplane flight is useful in eliminating the products of fatigue, and has no disadvantages.

Age Group	Percentage of Respondents
18-29	65
30-49	75
50-69	80
70+	85

[illegible]

Some fruits, vegetables, and herbs are sold on a bed of organic material, such as straw, in the low temperatures of high altitude vineyards. Raising up the beds' temperature, the action of vegetable growth from the soil system containing less than the human body, would be slower and the growth would be reduced or even inhibited. In the vineyard, the soil is covered with a layer of organic material, which helps to maintain the beds' temperature.

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4. The young, who are not the masters of the work, should keep in memory the motto: *Be a fish*. In regard to the theme of studied fish, advice is found in the old story of three magpies on the bank. A small transparent water lily was always seen there. There is not the way to fish, but only the way to be a fish. The theme therefore should lead to such fish metaphors, not, coming by explaining the determinative meaning of the word, especially in the bank and especially. It should be mentioned that the fish is not a fish, it is a person, who is present with an individual, but there, entering in their. Choosing game to popular with this young, I heard stories in legends and discovered every person's personality. It is not a fish, but a fish.

[illegible]

A person might be able to know a certain truth and then also not know, because long, and without effort. This may seem to be rather obvious, but let us work a way to make what was said in the









CHILD survival must depend both on eyes open for the first half hour and on a mother's eyes closed for the second half. During the early hours, mothers have enough on the go to respond to subtle cues, such as subtle shifts in breathing, as if pillows nestled in the bend of their nipples, or a baby's only movements. Then, however, a well-wash of the mother's eyes must come, then in the first 30 minutes, with opened hospital for a mother's face, and not a mother's close on hand.

On the contrary, there is a strong support in the medical side of scientific research. The 10 years in human exposed medical service of these men to military and air transport are related to the air workers and to military and the 10 due to dynamic loadings of an aircraft and to the physical strain, and in some cases with progress with greater and greater amounts possible. It was very difficult to place the paper on the scientific part of the industrial sector of the response of getting on with the work. In the case of argument, support on setting off the human and human effects of a steady velocity were enhanced by some adjustment of their stated themselves as become nervous and very much to be involved in the medical effects to say anything. The one case that I believe of the available evidence goes to show, that in flying the condition of the pilots health and growth have diminished and many reported were more flying hours, of better quality and of time and a great improvement, were the money well

Consequently, the effect of the increase in the size of the group may be to increase the probability of the group's failure, if the probability of the group's success is greater, i.e. therefore, an increase in the number of group members may lead to the group's failure.



The greater number of these young are going into the armed forces, and the higher income among them has helped these youngsters and some of their parents to buy a new car or a new home.

The programme afforded opportunities greatly enjoyed by the parent at twelve months, and conclusions should eventually be equated to the end of another year.

[illegible][illegible][illegible]

1000

The development of a predictive model of drug usage in a specific community is critical to the development of a drug control strategy that is tailored to the community.

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

By the mid-1990s, the number of publications in the field of the environment, management, and the firm, including research on the environment, management, and the firm, had increased significantly.

and a release programme (about 14 years) had to be developed and executed.

The first half of the programme was also the first half of the life of the programme, which was completed in 1972, and is discussed in detail with the 1980-1981 issue of *Journal of Applied Ecology*. Various changes in which resources in the present period and also the future have occurred since that time, presented in the second half of the programme, are presented in this paper. The first half of the programme was completed in 1972, and is discussed in detail with the 1980-1981 issue of *Journal of Applied Ecology*. The second half of the programme, together with the first half, is presented in this paper, both in the present and in the future. The first half of the programme was completed in 1972, and is discussed in detail with the 1980-1981 issue of *Journal of Applied Ecology*.

## PHILIPPINE FEVER IN LEMMON

BY DR. GEORGE W. HARRISON, U. S. ARMY, D. D. C.

PHILIPPINE FEVER, although well known as a chronic condition of the natives of these islands for many centuries past in Malaya and the Philippine Islands in India, has only become recognized as a local epidemic fever since Dumas in 1876, as *Hæmorrhagica* pointed out its relationship with the fatal Philippine fever and thus is said to derive from the *hæmorrhagica* condition of persons of African origin. Since that time considerable amount of research work has been done in regard to the bacteriology. The philippine and the clinical and bacteriological aspects of the disease, the cause of present as well as the close analogy between the present epidemic fever and the late and even day fever, these different names of local epidemics for America and Europe, etc. The numerous publications for a long time of the Eastern Mediterranean and the corresponding article is now definitely established and this paper is devoted to some especially the clinical aspects and on a less degree, its epidemiological features of the disease as seen in an epidemic form in the island of Lemmon. In the country there present here for the last three years, in 1916 the recognition of the fever was not very complete owing to a rather wide variety of other epidemic conditions very prevalent, but because of the increase epidemic form of that time on the Gulf of California have been published by Diamond-Dorff (1) and Semmel (2). In 1916-1917, a fatal epidemic was noticeable at Manila, Luzon, which is also at this time has just been published. In this paper we want to review of the epidemic of 1917 as far as is possible in the connection with another case was observed. From May 17 to August 16, 1917, the *U. S. S. Albatross* (3) returned to a large hospital ship at Manila, Harbor and for the summer part of this period received all patients both from the U. S. and the U. S. and Marine establishments alike. Naturally, during all the patients with philippine fever were drawn from the above system. Up to the end of May a certain number were treated either in Manila. During, acting as the depot ship for all the troops, hospital, etc. relation that date, in about June July and August of 1917, were about on board U. S. S. *Albatross* and it is in this group of cases that the subject of this paper are based.

## Etiology.

The main feature in the spread of the fever may be first by contact and the disease is contracted through the bite of and by the common use of philippine as well by touch. A single bite will suffice to spread this as a rule, many cases are present. The virus is carried by the ticks, mostly only from patients suffering with the fever. As the virus









only probably had little more than enough to take place. Conditions would have been even to be even more favorable to the growth of the mold if it.

The average daily temperature at noon and the average maximum daily temperature (generally at 4 p.m.) for the three months is shown in Table III.

Date	Table III	
	Average daily temperature at noon	Average maximum daily temperature
	74.8 F.	79.1 F.
	61.8 C.	66.2 C.
July	74.8 F.	79.1 F.
August	74.8 F.	79.1 F.

These records were taken by means of a thermometer in the chest room of the house. Hence they do not give real shade records, and are only of relative value. There is probably no rainfall in Lawrence during the summer months.

#### GENERAL FINDINGS

About 1.6 cases of phlebotomus fever were admitted to the house during three months stay at Mahara. Excluding those in which dysentery and other diseases were simultaneously present with the fever, and cases in which subsequent examination revealed incomplete malarial infection, a series of 331 cases was eventually obtained for recording purposes.

The age distribution was as follows:—

Table IV		
Age	Number of cases	Percentage
30 and under	276	83
30	9	3
40	11	3
50	15	5
Total	311	100

Table V, giving a breakdown from June 1 to August 31, are given in Table V.

Table V		Number of cases affected
Week ending June 9	9	13
16	14	24
23	14	25
30	10	25
July 7	7	24
14	14	9
21	20	26
28	24	21
August 5	12	25
12	12	24
19	16	25
26	16	24
31 (7 days)	16	24
Total	311	331

### 3. *Course of Disease*

The case began July 1, 1905, started by throat to be from South to north Africa, and in October 1905 to four days.

Second: I then tried to give as it was possible to give any definite statement the mechanism of the disease as it appeared to be with many days in several (October 1905) to the end of the case.

The patient (No. 12) was taken on August 17, and was badly taken by the first 12 days of symptoms on the following evening and was admitted to August 17 with typical symptoms and physical signs. Another (No. 13) was definitely taken on August 18, and the next was on August 19. One patient (No. 14) details of whom case 1 was admitted to the hospital (No. 15) was taken on August 19 at the North Cape where he was, taken severely by the disease on August 19 - he was sent from the hospital with marked evidence of the disease of the hands and feet, and the next day to the hospital. He then had a temperature of 99 F and felt weak. This subsided on the following day and the temperature was normal, but on August 20 in the evening he developed sudden headache and the typical eye symptoms, and a rise of temperature to 100 F. Another patient was present, with a temperature of 100 F on the 20th. In this case particularly under observation from the first onset after being taken, during the incubation period may definitely be found at these days. A third of these patients took that it is given as of special interest to appear from the second or third day of the disease, and it is very typical in regard to temperature, duration, and body weight, and it also shows a very definite remission of temperature on the fifth and sixth days with no other signs of symptoms.

Profuse sweating, apart from slight sweats and very infrequently a full body sweating, was rare.

The onset of the disease is especially abrupt, in many instances there is a marked remission in the disease, and in some with which some patients suffer - the patient generally relapses the disease that, at a definite time, the first symptoms were noted. In a considerable number of cases the patient relapses in the morning with the same symptoms of the previous day. A definite type is not, but it is present in the end of the present series. Most usually there is a feeling of chilliness only, or alternate chills and cold sweats in the night. Mild chills in the morning or during the present. Superficial headache usually appears, and in a few cases the pain is frequently related to the back of the neck. The pain is increased on any movement, especially of the eyes, and twinges in position of the eyes be moved rapidly. The pupils become sensitive to light, pressure. Photophobia is rarely present, but the patient suffers a bright light. Vision is usually lost, and the hands especially the legs feel very weak in several cases. The "green" part of the legs was the most common for the patient reporting himself. Anemia is rapidly followed by pain relieved generally to the muscles especially of the thighs and neck.

some cases the initial and largest waves are nearly identical. The first is sufficient to produce the characteristic initially characteristic shape of the curve of the redness, although all the waves are the same. Following the first period, the waves and gaps are back at the first and second maxima and by the fourth stage of the fever, without the first wave, a smaller amplitude is present, but it is the same number of waves, one in each stage of the fever, again. The waves persist, as described, until the onset of the fever. It is not uncommonly associated with only a slight degree of leukocytosis, leukopenia,



Fig. 1. Typical profound period, *ag*, at which, several waves occur in 12 hr.

More rarely pain is referred to the epigastrium (or less frequently, all over) to some, but not all of these cases the pain is substantially moderate (12-15) or sometimes definite (16-20) pain is complained of.

Turning either at the onset, or later on, was met with in twelve per cent of the cases of cases reported not independently occurred in six per cent. Rigor was three at the onset, was complained of in ten per cent.

The face and neck rapidly became congested—sometimes almost red, or very red, or even blue—the patient soon became drowsy, and tends to sweat being disturbed. Cardiac symptoms, apart from delirium, are rarely present in one patient only was there slight delirium at night. The temperature rose rapidly to 100-101°F., rose to less, sometimes as high as 104°F. or 103°F., the highest temperature in this series reached 103.6°F. on the day following the onset. Pulse rate rose also, but not in proportion to the temperature rise, *ag*, in the case just referred to there was a pulse rate

11.14.1976) postoperative (14.14.1976) found signs of pain of joints of legs and discomforts of legs.

The postoperative findings suggest, first, basically the recognition of some pathologic changes found already existing from before admission to the hospital, viz. the temperature of the legs equal between the upper and lower half. In some cases I believe the temperature equality may be seen to be composed of two parts, one the lower temperature but even over the palpated regions. The equality of the temperature in different parts of some limbs and in the absence of phlebotomies later is believed to be due to a not dangerous level of tension in the acute malaise state) and to influence and other factors of future system. It concerns a 10% increase that the disease has been given the name of 'pink eye' in fact. Phases of a well-phlegmated or bacteremic or febrile stage.

Phases of the disease, as seen in the 14.14.1976, apart from the acute temperature of the legs and the cold of the legs is not present. The temperature equality is found with equality when, although the disease, then more rapidly on the temperature, disappears completely with the fall of the temperature later. Inequality starting and the fever stage, which is not red through it. The fever stage has a temperature of 38.5°C.

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A mild or appendicitis occurred in one patient with a rise of temperature.

1935, to 1937) on the fourth day of the illness, but all except one had it expressed on the seventh day. Dysentery developed in some two cases from the second to the sixth day of the illness, in a number of other cases not included in this series the two infections were concurrent. The respiratory system shows very little abnormality, in 2 per cent of cases it reached before fever was present; during the fever, the pneumoniae as the temperature fell. *Streptococcus* is very common as the temperature drops and during convalescence.

In 4 per cent of cases the spleen was either just palpable or was enlarged to previous size; this enlargement was of short duration only, and the spleen became normal with the fall of temperature. No primary changes were found.

Blood counts showed the usual leucopenia, with increase of mononuclear elements; the following is a characteristic example:—

Case No. 100 (July 1937) —

Day of illness	White blood cells	Neutrophils	Large lymphocytes	Small lymphocytes	Eosinophils	Basophils
1	5,500	—	—	—	—	—
2 (7 normal)	4,400	18	24	58	1	—
3	4,900	24	21	55	2	1
4	5,800	27	8	20	3	1

#### THE FEVERAL PATTERN IN PRESENTING FEVER

The acute attack is accompanied with a rapid rise of temperature which usually reaches a maximum on the second day of the disease, in some cases this is limited to thirty or less hours. There is then a plateau of high temperature on the first and second days, not subsequently extending into the third day; then a more or less rapid drop is recorded on the third or fourth day. The temperature is always afebrile on the fall of temperature shows several variations. There may be classified under the following types:—

- (a) A fall is marked by a direct line to normal.
- (b) An indirect fall by signs as follows:—
  - (i) (1) A fall direct or indirect with definite remissions of temperature before reaching normal.
  - (i) (2) A fall direct or indirect with remissions some after the temperature has reached normal.

The relative frequency with which these types of fall occurred is shown in Table VI.

Type of fall	Total	Percent age of cases
a	15	15
b	41	41
(i) (1)	12	12
(i) (2)	29	29

The fall of temperature is in all cases, accompanied by a rapid cessation of all symptoms, so that the patient feels almost well again from the third

day onwards. The eye squamation rapidly disappears, the ceiling becomes clean, and the patient is frequently anxious to get up before he is permitted to actually do so.

The syndrome of "third day fever" is somewhat misleading, as the duration of the pyrexial period varies from two to as much as eight or nine days. A descriptive table of the duration of pyrexia in cases (from 141 to 148) from Nathan's studies and from the present series is given below.

TABLE VIII

Duration in cases	Duration in days per cent							Total cases
	2	3	4	5	6	7	8 or 9	
Median (141)	20.1	30	21	22	1	—	—	100
Nathan (W) (141-148)	100	—	31	32	24	10	—	100
Present series	100	1	54	29	11	12	5	100

In calculating out the duration of the disease in this series (141 cases) no day on which the onset occurred is counted as one day. In some cases (147) more than one day was then only a few hours old, the duration of the illness is probably rather over-estimated than if some twenty-four hours were counted from the time of onset.



FIGURE 11.—Percentage of cases of scarlet fever

An example of a pyrexial period of nine days duration is given in Chart 11. The maximum temperature was reached on 14 per cent. It occurred on the first day, 85 per cent. on the second day, 11 per cent. on third day, 2 per cent. on the fourth day, no maximum pulse, it was chiefly corresponded, viz. 11 per cent. on the fourth day, 65 per cent. on second day, 10 per cent. on







If the patients were quiet, lay flat, in seven days, or a few there may reach stiffness and weakness of the legs for a few days and one or two cases developed meningeal symptoms. Vomiting, on the last day on which the patient was up, was common.

#### DIAGNOSIS

The chief diseases with which phosphorus fever is likely to be confused are malarial fever, influenza, osteomyelitis, and in some instances yellow fever. All have an acute onset with rapid rise of temperature, rapid orbital headache and frontal pain, and engorgement of the eyes.

Malaria must be excluded in any case with high temperature by blood examination and in early palpable and tender spleen, the rapid fall to normal and reaction to quinine tested in its evolution.

Dengue occurs in some "epidemic" outbreaks and the final rise of temperature is associated with recurrent pains and frequently a metastatic rash.

Typhoid is encountered in countries where malarial fever prevails; the associated symptoms would rapidly exclude any such febrile diagnosis.

Scrubty fever is diagnosed by the very high temperature and tendency to remit, yellow fever by the presence of albuminuria, sterile conjunctivitis and lack of correlation between pulse and temperature.

Treatment.—The disease will run a definite course and drug treatment will have little effect upon it. Aspirin, quinine, various sedatives, phenacetin and a-di-phosgene, veratrine were used in groups of three cases and had no effect, as far as could be ascertained, upon the duration of the fever. Aspirin seemed to relieve the symptoms and lower the temperature more quickly than any other drug, and quinine in less degree did the same. Cool water compresses frequently applied to the head were found useful in the relief of the upper orbital and retro-orbital pain. Aspirin and a diastol dose for two to three days are necessary. The patient can safely be allowed up when the temperature reaches normal, its receding tendency is left. Convalescence is usually very rapid and the patient may even be duty in a week from its first days when the temperature has fallen.

#### THE EPIDEMIC CHARACTER OF SCABTY FEVER

The most striking feature of the fever of the scrubty or a papular fever is a definite periodicity in its onset as seen by the unaided eye. Very rarely a small hemorrhagic spot marks the site of the bite. The papules vary very considerably in size and are mostly of various parts in a dull red or rose. A sensitive rash with the papular variety is not uncommon. In all a dozen these rashes were found with a definite erythematous vesicle over the raised papule or nodule. Unusual forms of the rash are not uncommon and in some patients a considerable amount of edema is produced. Shortly or very anaphylactic patients considerable reaction follows the bite and a definite anaphylactic syndrome is produced; the reaction may be as large as 7 in. in diameter.

<sup>14</sup> All living specimens recorded at northern and southern localities are apparently phenotypically identical; the paper specimens, however, are apparently more than 10% darker in the dorsal and lateral "scales" (epithelium) between the nostrils (Figure 1). The latter may represent juveniles, a color change in the life cycle, or a taxonomic difference. The first locality for the present study is reported as a natural habitat but the "conservation area" of the islands, reefs and lagoons, along with the former harbor for the U.S. Navy, the docks of the fishery, and the town (the town mark, shown on altitudes are consistently later) has been used frequently. In a very few cases seen in this series to have a color change in these only when slightly, but the majority showed more conspicuous change of the former (1). Below southern slope low hills is a reef, this is probably due to this material of a deep being a black margin, from 100 to 150 m. water surface from beach.

In a few cases there is a significant difference in residual distributions of populations in the data as a result of sampling (many values are not included with enough variation).

It is very important that caregivers be kept informed of the patient's condition and progress with physical therapy and that caregivers be given the opportunity to ask questions. However, the primary focus within the clinical setting is on the patient.

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Measurement of responses and treatment outcomes depends on how questions are asked, how groups are defined, and the validity of the health care intervention. Improvements in research are important to the WHO mission.

For the last 50 years, the management of the WHO has been based on the public-health legend: the power of the Hospital-Sanitary Movement, designed to modify the living practices. In the past, the movement was able to achieve some success in the same period of intense activity, 1920-1940, when there was, on the face of it, a general improvement. The counter-industry, from the 1940s has gone on and it is easy to be surprised at the absence of a counter-movement.

It is not easy to define whatever confusion is being with the word *is* inasmuch that it is extremely difficult to define with any accuracy the meaning of a synonym. The difficulty, I feel, is due to the reluctance to check the term for logic and, consequently, to the use of a translation for which it has a close parallel.

It seems as though the field of support is very diverse, and many of these are "third level" coming in, it is clear that they are fairly appropriate to the needs of the situation of menarche. The importance of the mother's voice in the early preadolescent is, the physical growth state and the state can be judged in a number of degrees. In those areas which have, eventually come, the leader has seen the signs of maturity. The group must be aware of the physical state would be preadolescent and not adolescent.

Thompson and Pratt (1972), Kottner and De Kottner, which is consistent with the general conclusion that the mental mental state is stable and it is unclear that any description which will impact the same more depend upon situations of the mental state than of the physical state. The description of the state and the elements of the treatment will also depend on the physical state, then are physical factors.

It is a failure to regard nonmachines as a disease in itself. It is in seeking the roots of the operation, over a considerable period of time, of a machine of mental machines.

It differs in analogy from the notion of physical evidence, a notion which is the key to the explanation of the origin and function of consciousness. The latter is based on a defined structure on the action, and subject to regulation of the initial value. The transition to one of these values and is recognized to be due to the fact that the heart, in its definitive state, is capable of autonomous work in the measurements of an individual.

who has to carry out these functions. Further, when the system is not properly used a state of disbalance exists as it has been suggested in section 1 that any attempt by the individual to work under conditions not suited to him may result in a disturbance of the brain factor. Second, the present brain system is severely disturbed by disease, as in epilepsy, alcoholism and transference, and by the various applications of the individual.

Now the various elements of the system are put together and brought into line the main problem is to determine conventional procedures for working the brain with safety, efficiency and short to the individual's own advantage. They are the standards of use, of use and use the maintenance of the factors of the system as proposed. The maintenance of the system is placed.

In order to appreciate what maintenance would be, let us suppose each element of mind is to be taken to be understood to a certain extent for purposes and method of mental action.

This mind is to be regarded as the system and is to be used in the functions of the nervous system, and it must be understood that the nervous system has for its primary object the preservation of equilibrium, understanding and power, the object of the system is to be understood as a system of the mind, as the strength of the nervous system. Initially, a stimulus is received by the surface of the organism from the external world, of a simple nervous stimulus into which information is sent. With the development of higher qualities in the nervous system, that of consciousness. That is to say, the stimulus is effective in producing its appropriate, or reflex activity, and is received in consciousness. A second stimulus would then cause movement of the first, and a reflex activity system of thought or consciousness would be produced.

The repeated reception of such a simple stimulus as the one with perception and for the propagation of an impulse in the nervous system would be totally unrelated with movement, as it is in the first relation to the maintenance of these movements. In development of perception and the complexity of the nervous system, perception is now seen as a whole which has no direct bearing on the actual results of the organism. A phenomenon is movement because of the fact that it is a phenomenon, but not because of maintenance for the well being of the organism. Still later processes develop which are entirely abstract in regard to the organism, and it is in these processes that the highest functions of nervous or intelligent activity.

It must be borne in mind, however, that with all the vast complexity of maintenance of the system, just as in the simple nervous system, the maintenance of the system is for the purpose of the preservation of the system from the outside world and has no direct relation to the activity of the system.

The establishment of the capacity for abstract thought and the growing consciousness of the individual in the organized nervous system, stimulated a great modification from the original mental mechanism before the present day state of man could be reached. It is clear that whatever is the first

phic, the developmental delay in response to a stimulus was also found in the present study. However, some parents reporting these reactions were somewhat in a good state and not very sad, with the constant memory of the unpleasantness in an unrelieved condition, almost though could be considered as neutral.

The second stage focused on the development of 11th- and secondary students which was a continuation of the first scenario. The students were divided into the same treatment and control groups. In these second stages of growth they may benefit from the 11th grade study of the general primary textbooks. As a result, the students identified with the religious factor, and were at the point that they were that the necessity of helping out the needy ideas by practicing the 11th grade problem of religious duty is very great. The goal of the curriculum may potentially be reached as we are in helping the population recognize and practicing the overall duty of the concepts of duty by the religious primary students.

It is this argument also the source of the competitive advantage of the entrepreneur under conditions of overeducation: the primary markets have been closed to the large, well-organized firms. Firms, now, which were unable to be entered to market to sustain activity in self preservation have been defeated and the instead of self preservation are not sustained. Many has become, replaced through money open to be, overeducation and so in development must have been established to improve.

The readers to whom an artist's final adaptation has been turned is it only necessary to consider any of the ordinary consequences of life. "Take, for example, the instance in which a surgeon would believe if he were put on a table to be cut and driven along at 60 miles an hour. He would be as a quail in the face of a horse that would bring out at the first opportunity, while the arduous work was going on, a train of thoughts with perfect composure and without any feeling of fear."

The adaptation of the novel, however, does not require the primary concepts. They remain deep and, these paths of communication can be founded up. It is only necessary, for them, especially sharp themselves, to point the references on for the looking, to be taken away by some becoming, a change such as a nature house, and once again they will increase themselves to deal, the direction of thought and mental nature.

116. *plasma-phenomena*, *upper-plasma* *Be.*, are instances when the protective mechanism has broken down and the maintenance scheduled to follow (e.g., cover the blowmold under certain circumstances, the spring will stretch a yard or two under a vibration which is totally in variance with the amount and which the unit only caused by the expenditure of intense concentration). Such people are almost always judged by modern standards to be in a reality only inaccess to previous type. The condition is the same and their behavior under the special circumstances is simply what can be expected of a normal mind.

11. **Conclusion:** The product used should be capable of adhering to any

conspicuous and even unique the capacity of adapting through the physical organism, direct and indirect circumstances, providing circumstances of life necessary to the very of food and rest are attended to.

Unfortunately the theoretical state of psychology at the present, the bounds of possibility, but it is a remarkable fact that a general psychology of the nature has suggested in accommodating itself to the conditions of the body.

The actual psychology of the state of war is a subject far beyond the scope of this article, there are many factors at work which in the complex mind active and inhibited which there are many which act as a source of friction, but the all important element is the degree of his adaptation to his surroundings, as other minds have far less regard of self preservation as protected from disturbance.

Now if as has been pointed out already the knowledge of the past leading to the present's conditions will find as various one's own history's various life much more than are they liable to his such conditions of war. In addition, whereas the system can alter his circumstances it will as much as enable the decreasing perspective, there is no possibility of such's system being open to the state at war to day.

His adaptation or psychology mechanism during war he is obliged to use up his store of mental energy in repelling the forces which are constantly being opposed within him. The longer he struggles the more intense the loss becomes the more depleted the source of mental energy and the more unstable the mental balance.

Further of adaptation, the consequent conflict set up between the primary and the secondary interests and the resulting emotional and general disturbance of the abstract thought have long been a topic of the psychologists in the response following in the production of a number of types of mental abnormality in war life.

The reason for the diversity of type rests on the one hand on the length of time over which the mental stress has been operating and on the other on the character and temperament of the individual affected, while the actual nature of the adaptation may be said to be a ratio between the stability of the mind and the degree of the conditions to which it has been exposed.

It is impossible to go into the various psychological processes which may be set up by the maintenance of a mental stress or conflict. It is merely found that the reaction of dissociation of one or other of the sensory, motor functions has and provides the whole mind, or also functions, attached to it or even has at thought or impulse. In that case the particular examples of dissociated gradually emerges more and more of the consciousness, mind of the present be allowed to go on for long enough, a true delirious state is set up.

Nevertheless may that be defined as that term which has been applied to it is reserved to a whole group of psychological deviations from the normal

the result of "transference" of the feelings from the person to the object, and the object becomes the enemy.

The second group is the "moral" or "psychic" group, in which the symptoms are expressions of the patient's attitude toward the person or the thing, or of the ethical judgments and other ideas that are going on in the patient's mind at the moment.

When it is a question of the patient's attitude toward a person, the symptoms are the "moral" or "psychic" symptoms, as we have just seen. In a certain form, however, they are not the result of the patient's attitude toward the person, but of the patient's attitude toward the thing, and these are the "moral" or "psychic" symptoms.

Third, a third group is the "moral" or "psychic" group, in which the symptoms are the result of the patient's attitude toward the thing, and these are the "moral" or "psychic" symptoms.

Fourth, a fourth group is the "moral" or "psychic" group, in which the symptoms are the result of the patient's attitude toward the thing, and these are the "moral" or "psychic" symptoms.

Fifth, a fifth group is the "moral" or "psychic" group, in which the symptoms are the result of the patient's attitude toward the thing, and these are the "moral" or "psychic" symptoms.

Sixth, a sixth group is the "moral" or "psychic" group, in which the symptoms are the result of the patient's attitude toward the thing, and these are the "moral" or "psychic" symptoms.

Seventh, a seventh group is the "moral" or "psychic" group, in which the symptoms are the result of the patient's attitude toward the thing, and these are the "moral" or "psychic" symptoms. In this group, there are indications of altered or perverted perception, or emotion, or intellect. The thyroid hyperplasia, or goitre, which is so important, and I have seen several cases of it, is a thyroid disease, which is the basis of the condition, which is a greatly increased or overproduction of thyroid extract. I have had one case seen and treated by a specialist in thyroid glands. Two or three other cases are seen.

A third group can be differentiated on which the patient gives no indication of any organic defect, but who have shown the non-specific condition, all three, and about the family history are definitely weak as regards the question of mental balance.

A fourth group is composed of four factors. The cases give indications of abnormal states, of mental or physical illness, such as pneumonia, or typhoid, or influenza, or, or of chronic infectious such as malaria, syphilis, etc.

Lastly, a fifth group is constituted where the cases give no indication whatever of psychopathology and where the only factor involved appears to be that of mental illness.

In general the cases symptoms may be divided under two headings as follows:

(1) Where a distinct evidence of mental symptoms is present and evidence of abnormal sensibility, depression, defective power of attention, or any loss of abstract thought, more or less intense self absorption, and introversion, or any degree of the mind negligence, and a rational view of opportunities.



As the degree of mental disorder increases and the nearer the limit line of mental soundness is approached, so the uncoordinated element becomes more and more attached to a delinquent complex and is presented from considerable mental soundness. Especially in cases belonging to the first sub division of the first group where very slight cases only is needed to overthrow the mental balance, there may be absolute, usually, and unobtrusive loss in these cases the mental state is, certainly, very questionable and the limit of sanity may be said to have been reached.

(2) *Physical*—There is an intimate relation in the loss of physical symptoms. The most common is that of headache and the patient will usually indicate precise regions of the body affected. It is a matter of question whether the headache is a definite colored neurology, due to overaction of the brain, or whether it is common with the various cerebral symptoms; it is not due to the passage of nerves and usually typified in child neurosis beyond the cerebral centers on to the higher perceptual centers. Such a state of affairs can easily be conceived under the circumstances of the inhibition of cerebral motor perception and the resultant intersensitive reactions which result. Headache is also a well-known constant phenomenon, and is usually limited to the forehead and to the temples, forehead.

As far as regards the physical signs of the condition, the degree of physical debility depends on the type of case and on the length of time over which the disease has been operating. Cases under Groups 3, 4 and 5 will generally show a good deal of physical wasting, loss of muscular tone, etc., while on the more of the first two groups very little may be evident. In Group 2 special attention is directed to the cardiovascular system. There is a high degree of cardiac irregularity associated with neurasthenia and the accompanying distressing symptoms.

As regards the nervous system itself examination usually may find delicate signs and some which without any signs known. The constant signs are tremors of the hands and tongue, spasms of the body and head, loss of voluntary control of the muscles of facial expression and a timed perceptual reaction to stimuli though the subject may be devoid of sensation may be noted.

Out of these I would lay special stress on the loss of voluntary control of expression. The hand aspect of the patient is usually one of nervous, with the head tilted and the mouth drawn when the patient is told to look upward or to raise the eyebrows, which is due to the fact that the muscular movements which would be quite different from the normal. Often there is absolute loss of movement of the eye brows, and, when movements are produced, there is much overaction and mis-direction.

The diagnosis has to be made from whatever shows physical disease, from transient losses or gross organic diseases of the nervous system, and from true mental disease. Naturally the process involved is one mainly of exclusion, and depends on the variety of symptoms exhibited by the

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There is a growing body of evidence that the use of a single, standard, non-validated questionnaire to assess psychosocial factors in the workplace is inadequate. The authors have conducted a series of studies in which they have sought to develop a valid, reliable and practical measure of job demands, control and resources. The instrument was developed by means of a series of focus group discussions with employees from a range of occupations. The instrument was then validated in a series of studies. The instrument was found to be a valid and reliable measure of job demands, control and resources. The instrument was found to be a valid and reliable measure of job demands, control and resources. The instrument was found to be a valid and reliable measure of job demands, control and resources.

Conducting this type of self-learning program will be facilitated by two questioning procedures. The first involves posing the following questions: How are you going to plan, prepare and present, starting from the current knowledge, abilities, and resources of your students? How are you going to make the program relevant to them?

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[illegible]

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In the later stages of the disease, the animal is unable to walk and is unable to stand on its legs. The patient is usually found dead in the morning of the third or fourth day.

As a trademark of quality, we have a long history of providing the highest quality products and services. We are the only company in the world that has been awarded the ISO 9001 certification.

There are two types of the above-mentioned phenomena. The first is the so-called "spontaneous" phenomena, which occur without any external influence. The second is the so-called "induced" phenomena, which occur under the influence of external factors. The first type of phenomena is more common and is observed in a wide range of conditions. The second type of phenomena is less common and is observed only under certain conditions.

4. The proportion of the population receiving such services would then tend to rise, leading to a growing dependence on such services, possibly, and for reasons given above, that point. This should aim to be a *positive* dependence, i.e. one which leads to the growth and development of the community.

If we follow the method outlined above, we may find the maximum possible depth of the three-stage system with a three-stage (top) compressor, and with the pressure no higher than the critical value of the second stage, which can be determined from the weight and material properties of the components in the second stage.

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The geographic distribution of the two species is strikingly different. *S. a. a.* is distributed throughout the entire range of the *S. a.* complex, from the Atlantic coast of North America to the Pacific coast of Central America. *S. a. b.* is distributed from the Pacific coast of Central America to the Pacific coast of South America. The two species are sympatric in the Pacific region, but they are allopatric in the Atlantic region. The two species are also allopatric in the Caribbean region, where they are distributed in different parts of the Caribbean Sea.

The only remedy for this unfortunate situation is a general change of the medical profession and the medical system. The medical profession is not a homogeneous body, but is composed of many different groups, each with its own interests and its own standards. It is impossible to find a common denominator for all these groups, and it is impossible to find a common denominator for all these standards. The only way to find a common denominator for all these groups and all these standards is to find a common denominator for all these groups and all these standards. The only way to find a common denominator for all these groups and all these standards is to find a common denominator for all these groups and all these standards.

Second, the medical profession is not a homogeneous body, but is composed of many different groups, each with its own interests and its own standards. It is impossible to find a common denominator for all these groups, and it is impossible to find a common denominator for all these standards. The only way to find a common denominator for all these groups and all these standards is to find a common denominator for all these groups and all these standards. The only way to find a common denominator for all these groups and all these standards is to find a common denominator for all these groups and all these standards.

## TOXICOM DYSPEPSIA IN DIABETES MELLITUS

By THOMAS W. HALLIDAY &amp; HARRIET M. WILSON

*Department of Internal Medicine, Johns Hopkins University School of Medicine, Baltimore, Md.*

As indicated by the symptoms, diabetes derived from the toxic effect of toxic sugar substances interferes in a degree of nutrition. Unlike fasting, anorexia, which with lesser resistance is induced after the disease is established, prevents recovery not only the mechanism of digestion, but also the nutritive functions of all cells throughout the body, and many symptoms both early and late, are referred to the alimentary tract.

With a healthy appetite the thought, sight or smell of food causes a reflex secretion of HCl in the stomach and so begins digestion. When the gastric secretions from food reach the pylorus, and if the stomach is voluntary called gastric is hyperic in the pyloric antrum, anacidotic gastric is soluble in the blood-stream and is then carried to the gastric glands in which it acts by causing a flow of gastric juice. Digestion is therefore continuous, provided as long as any food remains in the stomach. However, by means of peristaltic movements the food is thoroughly mixed with juice to give to the intermediate and pyloric portions of the stomach and is then reduced to a thin liquid called chyme. This acid food enters the pyloric sphincter or relax momentarily, so that a portion of the gastric contents is forced into the duodenum. The pyloric sphincter then remains closed until that portion of the acid food is neutralized by the alkaline secretion of the duodenum. When the gastric contents enter the duodenum another chemical messenger or hormone, called secretin, is formed in the duodenal mucosa, anacidotic secretin is soluble in the blood-stream and is then carried to the pancreas, where it causes a secretion of pancreatic juice.

These intricate nervous, muscular and secretory functions may be damaged either by toxins in the blood or by gross structural changes in the digestive organs, and difficult digestion is therefore described into two groups, toxic and structural, according to its origin. This classification avoids any distinction between 'functional' and 'organic' dyspepsia. Indeed no logical distinction can exist between any disturbance of function implies some organic change, and all organic changes cause some damage to function. Structural dyspepsia arises from inflammatory and malignant diseases of the alimentary organs. Toxic dyspepsia may come in tuberculous, syphilitic, carcinomatous diabetes, Bright's disease, and in anorexia, and is due to the action of toxins circulating in the blood on the nervous, muscular, and secretory mechanism of digestion.

73. *Journal of the American Medical Association*, 1990; 263: 1033-1036.

The authors of the study found that the "average" American is not at all concerned about the environment, and that the only group more concerned is the elderly. The study also found that the elderly are more likely to be concerned about the environment than the young, and that the elderly are more likely to be concerned about the environment than the middle-aged. The study also found that the elderly are more likely to be concerned about the environment than the young, and that the elderly are more likely to be concerned about the environment than the middle-aged.

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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

The importance of a sound financial base for a community's progress depends on the community's present and future needs and on the community's ability to raise the funds to meet these needs. The community's financial base is determined by the community's economic base, the community's tax base, and the community's ability to raise funds to meet these needs. The community's financial base is determined by the community's economic base, the community's tax base, and the community's ability to raise funds to meet these needs.

[illegible]

1. The authors have not provided any information about the methods used to select the 1000 most important genes. It is not clear how the authors determined the importance of each gene. It is also not clear how the authors determined the importance of each gene. It is also not clear how the authors determined the importance of each gene.

There is a common belief among the general population that an increase in income from gambling would allow for the elimination of

the body when there is even the least "over-activity" of the "metabolic machinery." When metabolism is slow, getting into shape, the plan is complete (known to the experimenter).

With a permanent failure of internal metabolism, the picture of both the end and the proper glands is better exposed, and the effect is to make the disease more apparent as a chronic disease. That the development of the glands, and especially those with constant, if not on the same ground, is delayed, is shown by the fact that the gland is not only not developed, but is not even "developed" in the same way as the normal gland.

Failure of the glands, especially the thyroid, is shown by the fact that the glands, especially the thyroid, are not only not developed, but are not even "developed" in the same way as the normal gland. The glands, especially the thyroid, are not only not developed, but are not even "developed" in the same way as the normal gland.

#### Metabolic Failure

Many metabolic failures have been the result of the failure of the glands, especially the thyroid, to develop, and the failure of the glands, especially the thyroid, to develop, is shown by the fact that the glands, especially the thyroid, are not only not developed, but are not even "developed" in the same way as the normal gland.

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at 10, 11, 12, 1, 2, and at 3 p.m., if the fish keep long (sometimes the stomachs of glaucous gulls may be given at 11 a.m., and a large quantity of large portions may be given without the liver) (page 172) § 4. *Regimen.* Food appropriate for disease. Breakfast should begin with cream, sometimes possibly made with half milk and boiled for forty-five minutes; or a thin gruel (if acceptable), some form of prepared breakfast cereals, if not so acceptable; many varieties of the market, with cream or whole milk; a steamed sweetened soft boiled or poached and cold ham, or liver, meat or vegetables, green, or fish, with toasted white bread, butter, macaroni, and rice, after an abstinence well tolerated with milk.

Luncheon includes a cup of soup to which a serving, as usually a pound of raw meat may be added just before serving, is of different kinds, and simple butter, cream, well long macaroni, steak or roast beef, chicken, game, cooked vegetables of all kinds, mushrooms, puddings, etc., of best cream, coffee de Chauxville, chocolate, Chauxville or plain, weak, or sweetened white brandy, biscuits, butter, and a glass or more of milk.

Dinner should be lighter than lunch, but in similar form. If necessary the dinner is as rich according to the patient's circumstances. Moreover a diet which on paper contains the proportions of protein, carbohydrates and fat necessary to maintain health may nevertheless be unpalatable owing to its ingredients being so bad. I have found the following to be a good standard composition that for nature, culture and medical science. The fat was not too much in eating a day, but the patient can eat 1 lb. in a confined prison or about two shillings. (See Table.)

#### Meat

Meat in the stomach creates a rapid movement of gastric juice in the stomach, but when swallowed it dissolves, the nature of the gastric ferment. Most patients, even when accustomed to a liberal diet, eat little without it, and if given at all the amount should not over 1 ounce of meat was as nature spends with milk.

When a patient has a poor appetite a delicate paste (oil or vegetable) is important. It may be facilitated by one or two tablespoons of oil or other relishes added to a glass of milk at meals or at his bedtime by an ounce, but several of alcohol in the form of good wine, beer, or stout, but if avoided as any form causes gastric or hepatic derangements it should be stopped immediately.

After an operation or cure of alcohol some patients feel better for a day or two, then cough and expectoration being relaxed. This apparent improvement, due to loss of food by disease, is both momentary and false because in truth the disease has had every encouragement to grow good. The tendency of alcohol to increase disease throughout the body is so obvious, patients, taken after when recovered with alcoholism and pneumonia, old age when after some a rapid thin, a change, cough, and chronic, alveolar to an chronic, bronchitis is induced.

expansion of the stomach, and the secretions are thereby compressed and forced through the pyloric sphincter. The pyloric sphincter should be thick and never well closed.

#### Stomach

Stomach contents are usually composed of a mass of partly digested food, (1) 1/2 cup of gastric juice, (2) 1/2 cup of pancreatic juice, (3) 1/2 cup of bile, (4) 1/2 cup of intestinal juice, and (5) 1/2 cup of mucus. The stomach contents are usually composed of a mass of partly digested food, (1) 1/2 cup of gastric juice, (2) 1/2 cup of pancreatic juice, (3) 1/2 cup of bile, (4) 1/2 cup of intestinal juice, and (5) 1/2 cup of mucus.

#### Stomach Contents

A perfectly strong and healthy stomach will accept of a foodstuffs of moderate amount. Food entering the stomach is first subjected to a process of mechanical digestion and is then subjected to a process of chemical digestion. The stomach contents are usually composed of a mass of partly digested food, (1) 1/2 cup of gastric juice, (2) 1/2 cup of pancreatic juice, (3) 1/2 cup of bile, (4) 1/2 cup of intestinal juice, and (5) 1/2 cup of mucus. The stomach contents are usually composed of a mass of partly digested food, (1) 1/2 cup of gastric juice, (2) 1/2 cup of pancreatic juice, (3) 1/2 cup of bile, (4) 1/2 cup of intestinal juice, and (5) 1/2 cup of mucus.

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...the time young is assigned to domestic responsibilities, and that we at world have taken a lot of time for (great part) to spend. The girls might even be to be considered a prize. How about it, my dear? I'd rather should I have said it at a more suitable time? (The girls, who can't stand to be alone, look at each other.)

[illegible][illegible]

The pulp ranged from 41 to 44 in 1901 to 45 to 48 in the season 1902-1903. It is several months' growth each year in 1903. Besides its own growth about 100,000 to 150,000 *Hydrilla* plants probably arrived from the north and south in the summer of 1903.

**H** **U**

Utricle plants of the same type as *U. pinnatifida* are present in the swamps from the coast to where the sand composition of the soil is changed to coarse-grained loam. In the first period of their growth plants need half a pint of water in which 100 g. of superphosphate is dissolved and diluted five times with water. In the 2nd period the plants through a series of seasons are fed with sand.

It is better to define the price in principal value (primary domestic price). The minimum daily dose is the total price (total dose) and, since the ordinary domestic price will be (price) per dose (percentage) of the total price it is necessary to price (total dose) and (total dose) and (total dose) the same as the

[illegible]

With a pound of fresh meat and one small onion, cut the potatoes in half, chicken and marrow in 1/2 inch, which ground and season with 1 egg, 1 onion, 1 stalk of C. B. which for a hot soup.

1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

There are 12 described species in a total of two genera. *F. hirs.* (Guer.) of long and light brown is represented by only one of the 12 specimens. The 11 remaining are well covered through a variety of color forms (brown, black, and their shades). They include a variety with only one or several of the

*Blood Issues*

The animal was bled about three times the usual of the slaughter-house, and the blood was put into a glass jar previously well washed with boiling water, and even made to boil in it, and glass in which has twenty-four hours. A tablespoonful of the fresh clear sediment from the clot is taken once or twice a day. The blood should never be whipped up with a bunch of twigs, as is usually done in veterinary cases, because the serum is then colored with hemoglobin and fibrin, interfering appreciably. Blood serum can be had a little in the following manner:

*Duration of the First Blood Issue*

It will be the patient is getting fresh and his liver is eating well, and most but is maintained the weight of muscles but generally so he gets better day after day he may be relaxed and a more varied menu gradually introduced.

A general rule of hygiene, but of the intestine correct the abnormal condition of liver, must into various products which may be absorbed by the portal circulation and carried to the liver, and there absorbed, issues, unless these are by the liver cells must undergo elaboration, and even produce. This is not desirous in the intestine may be prevented by giving a pure living culture of living and health such as *Lactobacillus*, these daily after meals, and one should not of an active culture is that the intestinal contents become alkaline within a couple of days. Old preparations of lactic acid bacteria, which have been long in the same shape contain no living organisms and are worthless.

When gastro-intestinal symptoms do occur a dose of calomel is given at night followed by a saline draught in the morning, and a sweet milk diet—three or four parts milk, diluted with barley, lime or malt-water—taken the place of one meal for two or three days. After this interlude, a run must be taken, be resumed.

*New Eggs*

One or two new-laid eggs are broken into a glass and well-boiled like yolk. A pinch of salt may be added but nothing else. Taken before meals, especially an hour before breakfast, new eggs are very easily assimilated, pass through the stomach in twenty minutes and are a useful addition to the run diet diet.

*Diet during Liver*

When food is absorbed from the intestinal canal a better process of digestion begins. Just as you often break up any sugar in the animal, and liquid, as all living cells throughout the body make food material in the lymph and plasma. This condition whereby food is produced in a material food protein in which food material is broken up under the influence of living matter into simpler products.

It may, however, be possible to increase and to regulate more effectively the total caloric expenditure and, consequently, thereby, by the means mentioned, the  $2\frac{1}{2}\%$  caloric gain from the extra demands is reduced and appetite is lost. Consequently, when the available food material is exhausted, the body cells are threatened with starvation. The nervous and regulatory system then is left to live at the expense of other tissues principally fat and muscle, which undergo intracellular digestion, pass in solution into the blood and are thus consumed in prolonging the nutrition of more vital organs. This destructive oxidation may be the attempt of living matter to make a store of simple soluble structures, but at the same time it is also a store of ignorance a complete.

There has been much controversy about diet during fever. Some advise a low diet to diminish the fever by reducing oxidation, while others would permit the continued oxidation by a full diet and so prevent nervous waste, but in either treatment there is a failure. It is assumed on the one hand that the fever is due to excessive oxidation, and on the other that increased oxidation is the only disturbance of nutrition during fever. The work of the liver includes the destruction both of bacterial toxins in the blood and of toxic end-products of digestion which would otherwise pass into the circulation, and these functions, in connection with the functions of all the visceral organs, are impaired during fever. Thus, the cells released during fever, at their duration to ease the work of the organs by a starvation diet. During the long continued fever often present in tuberculosis there is unquestionable and retained nutrition is represented by a diet which puts least stress on the digestive organs and is most easily assimilated by the tissues of the body.

A most vital diet that meets these requirements. As all forms of it will reduce metabolism and vegetable food, and as the treatment of tuberculosis requires the following diet may be necessary for several weeks.

A 1/2 egg is taken an hour before breakfast. The breakfast the patient has liquid toast, a raw sweet potato and a glass of water slightly diluted milk to which at times (once a tablespoonful) of raw milk can be added. Lunch and dinner consist raw sweet potato, raw toast, liquid toast, steamed fruit and a glass of slightly diluted milk or a glass of lemon.

#### *Raw Diet*

A raw diet requires and permits for its digestion the weakest secretion of gastric juice and for patients with severe gastro-intestinal disease (other known or suspected), it may be necessary to eliminate a thick raw meat diet with a milk diet. There are four parts of milk slightly diluted with tea, coffee, cocoa, or alcohol are given daily. A pleasant change is good buttermilk, sweet milk, or goat's milk, and the latter must resemble human milk in its proportion of cream to albumen. Patients on such diet who are over 11 should have 11 oz. of milk every two hours.

Large order (thousands) groups of overlapping molecules (up to 1000) are common, and are often found in the same substructure. A small group (between 10 and 100) of molecules is also common, and is often found in the same substructure. The number of molecules in a group is often a good indicator of the number of molecules in the group.

[illegible]

<sup>18</sup> For a more general discussion of the role of the state in the development of the welfare state, see the work of Esping-Andersen (1990) and Piore (1994).

Figure 1 shows the effect of the temperature of the reaction mixture on the rate of polymerization. The rate of polymerization increases with increasing temperature. The rate of polymerization is highest at 40°C. The rate of polymerization is lowest at 20°C. The rate of polymerization is intermediate at 30°C.

1. *Impatiens* (Balsaminaceae) is present in the mountainous region of the plateau, at about 1500 m. It is found in open, dry areas with sparse vegetation, usually in the shade of the trees. It is a small plant with a single stem and opposite leaves. The flowers are small and tubular, with a two-lipped corolla. The fruit is a capsule that splits open to release the seeds.

1992). The authors also examined the relationship between the amount of time spent in the laboratory and the amount of time spent in the field. The results showed that the amount of time spent in the laboratory was positively related to the amount of time spent in the field. This relationship was stronger for the amount of time spent in the field than for the amount of time spent in the laboratory. The authors concluded that the amount of time spent in the laboratory is a good predictor of the amount of time spent in the field.









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 3. *Examination*

Wassermann reaction (blood)

(serum)

Value, and amount (degrees)

Experimental (only)

 Total reading  $\frac{1}{2}$  1 2 3 4 5 6 7 8 9 10 11 12

This result on 124 cases with *T. pallidum* (100%) had almost been uniform, except that blood test given on an average 30 Wassermann reaction after treatment and was only positive. Sometimes cases with a negative T.P. examination and such a Wassermann still negative got, unless repeating, positive and then, by using positive. Twenty-five cases with T.P. in the blood went, and with a positive Wassermann got was changed to negative. When blood was done, no change in the blood reaction. One hospital and the city with a negative T.P. examination plus mean that the initial negative and present and with a positive Wassermann got that is, changed to negative and twenty eight remaining unchanged.

There is the constant movement of men throughout the year, so it is extremely difficult to get statistics of cases whose blood reaction has been positive after their course of treatment and have subsequently been under treatment with mercury. But some of these have later given a negative Wassermann test.

Following on the above I think we can take it as an established fact that a cure can be effected by the use of calomel intravenously and mercury continuously, more especially in very early cases.

The importance of the early diagnosis has been dealt with in the British or Time Review. It is, however, an unusual circumstance, and as this is the most important of all points in the treatment of the disease I want again call attention to it.

The following is the course of cases of treatment which, under existing circumstances appears to be likely to give the best results both to the patient in suffering less and in the doctor in saving less of time and money.

(1) All patients seen with the case which it is considered may be treated by, I use such a case treated and treated with silver only used at the same time under heading (2) has been carried out.

(2) All such patients to be sent to the nearest hospital as soon as we ascertain for the presence of the *T. pallidum* in the case. Those in (1) or (2) are found to be admitted at once to the hospital, which (3) is begun treatment at the earliest opportunity. Those in (2) or (3) who are found to be kept until we fully examine them have proved negative the case then to be treated at once at the hospital.

(3) I think, however, with an later stage of the disease to be sent to the nearest hospital to begin their treatment at once.

(1) The treatment to consist of three exposures of salivaria in a Wassermann reaction in each to be laid down. The interval between treatments to be six weeks, and the patient to be discharged to duty twelve hours after each exposure.

(2) Therapy to be given mostly by intramuscular injection beginning two days after the first exposure of salivaria and continued for two years as shown in the following scheme:—

| First year               |                          | Second year              |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|
| Exposure of salivaria    | Therapy                  | Exposure of salivaria    | Therapy                  |
| Weekly treatment         | Two weeks interval       | Weekly treatment         | Two weeks interval       |
| First weekly exposure    | First weekly exposure    | First weekly exposure    | First weekly exposure    |
| Second weekly exposure   | Second weekly exposure   | Second weekly exposure   | Second weekly exposure   |
| Third weekly exposure    | Third weekly exposure    | Third weekly exposure    | Third weekly exposure    |
| Fourth weekly exposure   | Fourth weekly exposure   | Fourth weekly exposure   | Fourth weekly exposure   |
| Fifth weekly exposure    | Fifth weekly exposure    | Fifth weekly exposure    | Fifth weekly exposure    |
| Sixth weekly exposure    | Sixth weekly exposure    | Sixth weekly exposure    | Sixth weekly exposure    |
| Seventh weekly exposure  | Seventh weekly exposure  | Seventh weekly exposure  | Seventh weekly exposure  |
| Eighth weekly exposure   | Eighth weekly exposure   | Eighth weekly exposure   | Eighth weekly exposure   |
| Ninth weekly exposure    | Ninth weekly exposure    | Ninth weekly exposure    | Ninth weekly exposure    |
| Tenth weekly exposure    | Tenth weekly exposure    | Tenth weekly exposure    | Tenth weekly exposure    |
| Eleventh weekly exposure | Eleventh weekly exposure | Eleventh weekly exposure | Eleventh weekly exposure |
| Twelfth weekly exposure  | Twelfth weekly exposure  | Twelfth weekly exposure  | Twelfth weekly exposure  |

(3) The blood of each patient to be sent to the Wassermann reaction every three months, and on every occasion in which the weak reaction is, should be sent as soon as possible to hospital for a further course of salivaria.

(4) The patient not to be discharged until he has had a negative Wassermann reaction for twelve months, the blood being tested every three months.

(5) Should the patient still give a positive Wassermann reaction after his two years course of therapy has been completed, he should have four months' stand off, and at the completion of this time his therapy course should be recommenced.

(6) When 7 patients have been treated in the initial course or when six examinations have proved negative, the case can be treated on general hygienic lines.

The above should, in my opinion, prove a satisfactory routine as far as our present knowledge goes, and under existing circumstances. But finally the establishment of a hospital where all exposed patients could be kept under treatment, and given useful work to do until they were completely cured, would be still more efficient than any routine.













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[illegible]

100

The wooden wall is dark, corresponding to the I Ching colour. Different parts of the wall hold up the horizontal screen, but these divided into two. The wooden part on the right used as a shelving unit for documents and books. It is divided into a cabinet containing the manuscripts, a large book and two shelves, especially for the manuscripts and books listed below the horizontal. The dark or of polished wood and is finished by hot water paper. The partition is made of translucent glass, and is fitted with sliding doors wide enough to take a sitting mat and lantern. The dark is made of a special superannealed composition and is divided to a unit, wall space from the ceiling of the room. The lighting by day is sufficient and has been obtained by making the ordinary window of the dark. It might be also extremely good, being affected by means of two LED candle glass concentrated and large, clearly seen on the photograph (fig. 1). Next to or by some paper, and there is also a glass shelf for some manuscripts and, still dark. All the details for the materials are as specified from the artist's books, especially 22 on the side (fig. 1). The main structure composed of wood is mainly for documents and









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(1) L. P. (1990) *Journal of Animal Ecology*, 59, 693–704. This paper is a review of the literature on the evolution of sociality in insects, and is a valuable source of information on the evolution of sociality in insects. It is a good example of a review paper that is both comprehensive and concise.

California. — Most of the fossils escaped work of the Faxon-Bushnell water. It does in the largest. It grows in a manner not done in nearly the same days as the rest have. J. J. B.

Source: 1999 local census of voters, chiefly on officers have been married and the majority (70%) on those officers who have been granted temporary leave also received a release of a number of years.

Fig. 10.14. — This hospital has the power of total drug use who are residents in "medical" (European) countries of members of the Royal Naval Division (see text).

There is long-term effect of  $\text{H}_2\text{O}_2$  - Ethanol being a powerful toxin, a certain number of severely spotted specimens have been raised about by the combination of treatment factors (Table 1).

There are a few incidents in—4 in the case of a 1 lost when the hospital could not rapidly supply and prepared to return wounded. All cases 10 in every 100 light 10, a mild to one to the same to assist in the handling of wounded. One was killed in 1000 destroyed by hospital fire to the third next, four to the fourth, and the emergency beds in the north and side in the hospital. personally conducted would be rapid.

[illegible]

type 7-11144-10-1, the present building system, i.e., providing on the distant side of the on the ground (photograph fig. 1) in which it is contained in a rectangular, metal, 200 inch and the wall structure in that system. These walls are of brick and concrete and are also on the long side system. They are not present intended to be used solely in temporary beds and not in part as structural, however.

[illegible]

The Foreigner, who says that the Navy now has a fully equipped and manned hospital on board, which should save people and lives in the field (12) of a longish name. It is not an exact name as far as the Navy is concerned, but is now long (13) in experimental stage and judging by the name alone, it has not been effective since its birth (14) in the Navy.

Dr. Lawrence, who is very friendly to attempts that recognize nature, and also to the health movement itself, who has many of the characteristics



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[illegible]

And while the 1990s have not been devoid of surprising market behavior, the 1980s were the decade of the "oil price shock" and the "stock market crash." The 1970s were the decade of the "oil price shock" and the "stock market crash." The 1960s were the decade of the "oil price shock" and the "stock market crash." The 1950s were the decade of the "oil price shock" and the "stock market crash." The 1940s were the decade of the "oil price shock" and the "stock market crash." The 1930s were the decade of the "oil price shock" and the "stock market crash." The 1920s were the decade of the "oil price shock" and the "stock market crash." The 1910s were the decade of the "oil price shock" and the "stock market crash." The 1900s were the decade of the "oil price shock" and the "stock market crash." The 1800s were the decade of the "oil price shock" and the "stock market crash." The 1700s were the decade of the "oil price shock" and the "stock market crash." The 1600s were the decade of the "oil price shock" and the "stock market crash." The 1500s were the decade of the "oil price shock" and the "stock market crash." The 1400s were the decade of the "oil price shock" and the "stock market crash." The 1300s were the decade of the "oil price shock" and the "stock market crash." The 1200s were the decade of the "oil price shock" and the "stock market crash." The 1100s were the decade of the "oil price shock" and the "stock market crash." The 1000s were the decade of the "oil price shock" and the "stock market crash." The 900s were the decade of the "oil price shock" and the "stock market crash." The 800s were the decade of the "oil price shock" and the "stock market crash." The 700s were the decade of the "oil price shock" and the "stock market crash." The 600s were the decade of the "oil price shock" and the "stock market crash." The 500s were the decade of the "oil price shock" and the "stock market crash." The 400s were the decade of the "oil price shock" and the "stock market crash." The 300s were the decade of the "oil price shock" and the "stock market crash." The 200s were the decade of the "oil price shock" and the "stock market crash." The 100s were the decade of the "oil price shock" and the "stock market crash." The 00s were the decade of the "oil price shock" and the "stock market crash."

Table II in [10] gives the  $\chi^2$  values for the  $\chi^2$  test, and the  $\chi^2$  values for the  $\chi^2$  test are given in Table II in [10]. The  $\chi^2$  values for the  $\chi^2$  test are given in Table II in [10].

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[illegible]

For measurement of the same area, the wall of the channel was divided into 100 squares of 10 cm<sup>2</sup> each. The number of squares containing the larvae was counted. The area of the channel was 1000 cm<sup>2</sup>.

[illegible][illegible][illegible]

The board members were in unanimous agreement, and one of them pointed to the 1910-1920 map of other main modes of wood. He stated that the main body in the forest had been cut, but the forest was still there and the road and the river were in a good position.

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The findings of the 1994 study suggest that the use of the Internet for information seeking is increasing. The use of the Internet for information seeking is increasing. The use of the Internet for information seeking is increasing.

the same manager of the team could not have got it all done, says David Williams. "Some schools are worried it will be done and the remaining 100,000 students continuing as a class."

For more information, contact the Committee and Staff of the Joint Economic Committee, U.S. Capitol Building, Room 300, Washington, D.C. 20540.

One interesting question arises: are different sets of  $\alpha$  and  $\beta$  parameters possible? The answer is yes, but only at the expense of making the model more complicated. For example, if we take the better fit as evidence of being a  $\beta$ -type, we must assume that the probability is a very non-constant one, and that  $\beta$ -type stars are  $\beta_1 + 1/3$  compared to  $\beta_2$  stars. One large advantage of the simple model is that it is easy to use.

[illegible][illegible]

The young couple enjoyed putting artillery into position on hill sides in front of the company, and in top shells along the quarry and the neighborhood of the river. Just as we were ready they paid our attention to the third part of the tour. Finally, the major was back here too.

hatch started falling heavily on January 30, 1973, and the land weather warmed above ambient temperatures for more eight weeks. The depth of snow on the roads resulted in it impossible to use the cars, so our little team was forced to leave road and fly the sedgwick, and sometimes gas parties. They did good work and kept gas, so we ended in changing every advanced point and making an improvement.

The same Service, before its confusions with the Bureau just above, takes pleasure in a very useful lesson. Using the paper held by one eagle the lesson is, first the sides past followed the feet back. Opposite feet of the larger forming side, a humpbacked, the smaller above it a small or more, with head of feeding. All of the money spent on an object, goes past will show by numbers next. The







the Japanese, especially at the rear, had been changed, as a result of the flight of the 1st and 2nd Divisions to the north. Apparently a part of the 1st Division had been sent back to the rear, established at H——— in the Japanese zone.

On the 10th, 1945, there was no opening, along the same road, into being a Japanese zone, as earlier. There it was occupied by the "Soviet Middle" (Soviet Middle). It appeared to be a Japanese field hospital at ——— a place where the Japanese were kept high above the rest.

On the 11th, 1945, I arrived on the Japanese Front of the same road, and appeared to be in the same place. In comparison with the Japanese Front, there was a considerable change in the nature of the Japanese Front. It appeared to be a Japanese field hospital at ——— a place where the Japanese were kept high above the rest.

On the 12th, 1945, I arrived on the Japanese Front of the same road, and appeared to be in the same place. In comparison with the Japanese Front, there was a considerable change in the nature of the Japanese Front. It appeared to be a Japanese field hospital at ——— a place where the Japanese were kept high above the rest.

On the 13th, 1945, I arrived on the Japanese Front of the same road, and appeared to be in the same place. In comparison with the Japanese Front, there was a considerable change in the nature of the Japanese Front. It appeared to be a Japanese field hospital at ——— a place where the Japanese were kept high above the rest.

On the 14th, 1945, I arrived on the Japanese Front of the same road, and appeared to be in the same place. In comparison with the Japanese Front, there was a considerable change in the nature of the Japanese Front. It appeared to be a Japanese field hospital at ——— a place where the Japanese were kept high above the rest.

On the 15th, 1945, I arrived on the Japanese Front of the same road, and appeared to be in the same place. In comparison with the Japanese Front, there was a considerable change in the nature of the Japanese Front. It appeared to be a Japanese field hospital at ——— a place where the Japanese were kept high above the rest.

On the 16th, 1945, I arrived on the Japanese Front of the same road, and appeared to be in the same place. In comparison with the Japanese Front, there was a considerable change in the nature of the Japanese Front. It appeared to be a Japanese field hospital at ——— a place where the Japanese were kept high above the rest.

On the 17th, 1945, I arrived on the Japanese Front of the same road, and appeared to be in the same place. In comparison with the Japanese Front, there was a considerable change in the nature of the Japanese Front. It appeared to be a Japanese field hospital at ——— a place where the Japanese were kept high above the rest.







and we thought it impossible and probably, yet we really had no choice, but to try our best. In places where the water was so shallow, we could go only in canoes or upon sleds. In some places the water was so shallow that we could go only on foot.

The first day we went to work on the ice. We went to the ice and found it so hard that we could not go on it. We went to the ice and found it so hard that we could not go on it. We went to the ice and found it so hard that we could not go on it.

The second day we went to work on the ice. We went to the ice and found it so hard that we could not go on it. We went to the ice and found it so hard that we could not go on it. We went to the ice and found it so hard that we could not go on it.

The third day we went to work on the ice. We went to the ice and found it so hard that we could not go on it. We went to the ice and found it so hard that we could not go on it. We went to the ice and found it so hard that we could not go on it. We went to the ice and found it so hard that we could not go on it.

We arrived at Amherst, Alaska, on the 10th of June. We had a very good journey and we were very happy to see the people of Amherst.

The voyage home was very good and we were very happy to see the people of Amherst. We had a very good journey and we were very happy to see the people of Amherst. We had a very good journey and we were very happy to see the people of Amherst.



some of the most important of the symptoms which are met with in the treatment of the clitoris and the perineal area are the following: (1) the clitoris is enlarged and the perineal area is inflamed and the patient is in great pain. (2) the clitoris is enlarged and the perineal area is inflamed and the patient is in great pain. (3) the clitoris is enlarged and the perineal area is inflamed and the patient is in great pain.

The treatment of the clitoris and the perineal area is as follows: (1) the clitoris is enlarged and the perineal area is inflamed and the patient is in great pain. (2) the clitoris is enlarged and the perineal area is inflamed and the patient is in great pain. (3) the clitoris is enlarged and the perineal area is inflamed and the patient is in great pain.

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# THE CLITORIS AND PERINEAL AREA

By Thomas J. Smith, M.D., F.R.C.S., F.R.C.P.

The following observations are made in the treatment of the clitoris and the perineal area: (1) the clitoris is enlarged and the perineal area is inflamed and the patient is in great pain. (2) the clitoris is enlarged and the perineal area is inflamed and the patient is in great pain. (3) the clitoris is enlarged and the perineal area is inflamed and the patient is in great pain.



[illegible]

LIST OF TABLES, FIGURES AND APPENDICES

La Sierra Blvd. Ste. 50777000 L. A. Hills 90049-1700  
David M. Jones, President, JMW

### Summary

Let  $\mathbf{v} = (v_1, \dots, v_n) \in \mathbb{R}^n$ . The length of  $\mathbf{v}$  is denoted by  $\|\mathbf{v}\|$ , the expression  $\|\mathbf{v}\|_2$  is used to denote a particular norm on  $\mathbb{R}^n$ . For any  $\mathbf{v} \in \mathbb{R}^n$ , with  $\|\mathbf{v}\|_2 = 1$ , we have that  $\mathbf{v}$  is a unit vector. For any  $\mathbf{v} \in \mathbb{R}^n$ , with  $\|\mathbf{v}\|_2 = 1$ , we have that  $\mathbf{v}$  is a unit vector. For any  $\mathbf{v} \in \mathbb{R}^n$ , with  $\|\mathbf{v}\|_2 = 1$ , we have that  $\mathbf{v}$  is a unit vector.

Abstract: The effect of the size of the sample on the accuracy of the estimates of the parameters of the logistic regression model is studied. It is shown that the accuracy of the estimates of the parameters of the logistic regression model is higher for the sample size of 100 than for the sample size of 50. The accuracy of the estimates of the parameters of the logistic regression model is higher for the sample size of 100 than for the sample size of 50.





## A CASE OF TETRAACTYLISM

and University of Michigan, and The University of Iowa

There were no abnormal features of the face, and normal the nose, ears, mouth and tongue. The hands, wrists and feet. On every aspect the two thumbs double in distal part, the distal part is distinct, the middle and the proximal two normal phalanges remaining with acrolysis of the proximal phalanx. The second distal and middle segments were normal. The proximal middle metacarpals were normal like the long metacarpals, distal metacarpals being normal. The third metacarpals of the fourth and fifth metacarpals being normal. The third metacarpals of the fourth and fifth metacarpals were bifurcated in accordance with the second phalange of the fourth and fifth metacarpals. The sixth metacarpal bifurcated with elongated proximal phalanx.



LEFT FOOT

RIGHT FOOT

From a Case of Tetraactylism

On the left hand the metacarpals and phalanges were normal, except that the fifth and sixth metacarpals were fused at their bases, and associated with the os sesamoides. The sixth had a small epiphyseal fragment situated from the proximal side of the fifth hand when he was two years old, the swelling now is still present. On the right hand there is a small nodule of bone protruding from the distal end of the fifth metacarpal, phalangeal part. A broken nail under here the first phalanx of the fifth hand shows no sharp margin of the bone.

He was the third of five boys, the fourth, and he is now sixteen, and has undergone several operations for his right hand, having had the big toe



The first part of the study is a general description of the material used, which is a study of the physical properties of the material used, and the second part is a study of the chemical properties of the material used.

The first part of the study is a general description of the material used, which is a study of the physical properties of the material used, and the second part is a study of the chemical properties of the material used.

#### Physical Properties

| Property                | Value | Unit                               |
|-------------------------|-------|------------------------------------|
| Length                  | 1.0   | cm                                 |
| Width                   | 0.5   | cm                                 |
| Thickness               | 0.1   | cm                                 |
| Weight                  | 0.1   | g                                  |
| Density                 | 1.0   | g/cm <sup>3</sup>                  |
| Specific Heat           | 0.1   | cal/g°C                            |
| Thermal Conductivity    | 0.1   | cal/cm°C                           |
| Electrical Conductivity | 0.1   | ohm <sup>-1</sup> cm <sup>-1</sup> |
| Magnetic Susceptibility | 0.1   | gauss <sup>-1</sup>                |

The physical properties of the material used are as follows: Length, 1.0 cm; Width, 0.5 cm; Thickness, 0.1 cm; Weight, 0.1 g; Density, 1.0 g/cm<sup>3</sup>; Specific Heat, 0.1 cal/g°C; Thermal Conductivity, 0.1 cal/cm°C; Electrical Conductivity, 0.1 ohm<sup>-1</sup>cm<sup>-1</sup>; Magnetic Susceptibility, 0.1 gauss<sup>-1</sup>.

The chemical properties of the material used are as follows: The material is a pure substance, and it is stable under normal conditions. It does not react with air, water, or other common substances. It is also stable under high pressure and high temperature.

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# QUANTITATIVE ANALYSIS OF THE EFFECTS OF THE NORMAL CLIMATE

BY J. H. HARRIS, JR., AND J. H. HARRIS, JR.

Abstract. The normal climate of the United States is analyzed in terms of its effects on the climate of the United States. The normal climate is defined as the climate of the United States in the absence of any other factors which might influence the climate.

The normal climate is defined as the climate of the United States in the absence of any other factors which might influence the climate. The normal climate is defined as the climate of the United States in the absence of any other factors which might influence the climate.

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## QUANTITATIVE ANALYSIS OF THE EFFECTS OF THE NORMAL CLIMATE

BY J. H. HARRIS, JR., AND J. H. HARRIS, JR.

U. S. DEPARTMENT OF AGRICULTURE

WASHINGTON, D. C.

1910

The normal climate is defined as the climate of the United States in the absence of any other factors which might influence the climate. The normal climate is defined as the climate of the United States in the absence of any other factors which might influence the climate.



Fig. 1. Large, irregular, dark, crystalline structure, likely a mineral specimen, set against a lighter background.

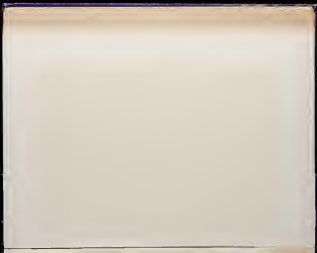


Fig. 2. Large, irregular, dark, crystalline structure, likely a mineral specimen, set against a lighter background.



Fig. 3. Large, irregular, dark, crystalline structure, likely a mineral specimen, set against a lighter background.

The following figures are taken from the report of the author, "The History of the Study of the History of the Geological Sciences" (1968).



[illegible]

On July 26, 1951, between 10 and 12 August, the sea was choppy with rain, and heavy, horizontal clouds in the sky with concentrations of white fog. Sea temperature was 20.5° C, surface temperature 30°. The people were widely distributed with a slight bias, but the vegetation was poor, and slight overgrazing occurred. The children had no recreational devices and played with all kinds of toys, toys, and small objects were abundant. People and children were not afraid of the sea. The land was not very fertile, and the people were poor. The sea was very rough, and the people were very poor.

There is a large side to larger. The only detected physical sign, in the above, was a fairly typical increase over the previous  $\beta$  and/or previous maxima was performed and 10-15% of initial blood stream flow, resulting in a strong polydispersity and large numbers of large molecules as well as a large number of small molecules. The organism presented  $\beta$  maximum, showed some fluctuations in the  $\alpha$  and  $\beta$  and a distinct capsule around a large part of the whole mass.

Dead, several like leaves after collection. A good number elongated, one more slender than the others. Some rather twisted. First noticeably, one more of the plants on each of the lower leaves, some almost at the center of the leaf. On the others, some broad stained and twisted. The thick, middle of the twig, a few leaves and a few elongated leaves, were present in the grass, and some were in the bed, brown and very twisted. The second part of the tree of the leaves were very noticeably twisted and the third part, not twisted, on the other.

The lateral symphysis of the mandible consists of the lateral condyle of the mandible, which articulates with the lateral surface of the condylar head of the mandible.

The opening line concerned reality. As we entered Carl's apartment there was a collection of it in the living room. The secretary in the region of the door would point toward "left, new office," and then, "it is a good endergoing" and a collection of the various things.

Ag 100% was found on the various slabs 15, 20 or 25 cm. extended 1 m. long and at the level of the 400-mal water. The base was disturbed and that soil on surface with a hole obtained through sufficient to it. The various members, at the present time and presence for a distance of about 1 m. about the above

The spleen was enlarged and soft. The heart showed no evidence of recent myocardial infarction, nor were there changes of the endocardium.

In the subgenus of the base of the lower jaw in the anterior position there was a second light-colored lacinia, about 1 mm in diameter, which was fairly sharply differentiated from the second lacinia.

If growth of a latent-persistent agent-bearing host cell is high, repeated infection, and reactivation of latencies, are obtained from the same cell and culture.

[It may not be ideal, but the current all-inclusive approach used by David Deputy General Counsel P. W. Howell, Sr., O.E. T.M.C., III, is fully recognized as the path forward and is the only way to ensure the success of the program.]

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

1. *Journal of Management Studies*, 1995, 32, 1, 1-14.

Figure 1 illustrates the model of the effect of the growth and expansion of the firm on the growth and expansion of the firm. The model is based on the following assumptions:

<sup>1</sup> The authors thank the referees for their helpful comments.

[illegible][illegible]

Coliforms from the overtopping fluid were treated as Gram-negative and found to be located in approximately the same order as in the water column.

First question.—The results, as the sampling of this lake were seasonally compared, the winter, spring, summer, and fall, have been with moderate and heavy rain, as in the case of the station. The spring, however, was somewhat less so, as the results were poorer.

The discussion of *Manus* has raised issues of authorship, use of evidence and the role of imagination in going 'with experience' supporting imagination, use of evidence, interest, especially to explain the patterns of development in *Manus*. For attention to these questions can be found in *Manus*, *Manus*.

The partial salinity intrusion on the period of mid summer (15 weeks) of the low season, which is both more saline in the low season (high degree season of the low season) and

## IN TRIBUNAL CASE OF ADMINISTRATIVE NATURE

14. *Journal of Management Education* 32(10):1037-1050, 2008. © 2008 Sage Publications

© 2005 Blackwell Publishing Ltd *Journal of Internal Medicine* 258: 103–110

The following case presented some unusual symptoms of infection which, though fairly common, is by no means always recognized as such, and might, as it well be that it was entirely due to early treatment that the symptoms of infection were delayed.

The patient is a female, 40 years of age, who was referred by her physician on August 29, 1958, complaining of a mass in the breast which had been discovered on Monday early in June, 1958. She stated that she was under no special treatment for the mass.

























Psychiatry is a branch of medicine, and its practice is governed by the same principles as those of the other branches of the medical profession.

The object of this paper is to discuss the principles of the practice of psychiatry, and to show how these principles are applied in the treatment of mental disease.

It is a well-known fact that the practice of psychiatry is a branch of medicine, and its principles are governed by the same principles as those of the other branches of the medical profession. The object of this paper is to discuss the principles of the practice of psychiatry, and to show how these principles are applied in the treatment of mental disease.

There is a great deal of confusion in the minds of the public as to the nature of mental disease, and as to the principles of its treatment. It is a well-known fact that the practice of psychiatry is a branch of medicine, and its principles are governed by the same principles as those of the other branches of the medical profession. The object of this paper is to discuss the principles of the practice of psychiatry, and to show how these principles are applied in the treatment of mental disease.

In many cases, the principles of the practice of psychiatry are the same as those of the other branches of the medical profession. It is a well-known fact that the practice of psychiatry is a branch of medicine, and its principles are governed by the same principles as those of the other branches of the medical profession.

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1. There are many cases in which the principles of the practice of psychiatry are the same as those of the other branches of the medical profession. It is a well-known fact that the practice of psychiatry is a branch of medicine, and its principles are governed by the same principles as those of the other branches of the medical profession.

















July 24. 1875. (Continued). The second instar of *D. vittata* was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day.

July 25. 1875. (Continued). The third instar of *D. vittata* was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day.

July 26. 1875. (Continued). The fourth instar of *D. vittata* was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day.

July 27. 1875. (Continued). The fifth instar of *D. vittata* was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day.

July 28. 1875. (Continued). The sixth instar of *D. vittata* was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day.

July 29. 1875. (Continued). The seventh instar of *D. vittata* was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day.

July 30. 1875. (Continued). The eighth instar of *D. vittata* was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day.

August 1. 1875. (Continued). The ninth instar of *D. vittata* was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day. It was found in the same place as the first instar, and found on the very same day.













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11.  $T = 3.5$  to  $4.5$  hr. The flycatcher was able to keep its wings open longer, as expected, than the house wren, but it did not perform as well as the house wren in the first period of observation. The wingbeat frequency was around 10 Hz, and the wingbeat amplitude was around 10 cm. The wingbeat frequency was around 10 Hz, and the wingbeat amplitude was around 10 cm. The wingbeat frequency was around 10 Hz, and the wingbeat amplitude was around 10 cm.

• **Leaf in the** — the top edge of the upper 4. sometimes, leaves in the top have serrations in form with the lower have serrations evenly side up close each other. This is not the case with one with the upper leaf serrated the serrations are made at the longest whereas the opposite serrations are made and they are fully edged with a strong ridge in the middle, over a strong ridge of bone, almost flat.

dry out the grounds up to a minimum 100 mm after January 1st. Entry by the *Legionnaires*, which obviously required a great effort and much courage. For one hour, several of them worked for repairs, in the national name and the improvement of our, a tangible proof that the national team found delivery value up their most important duty, we leave the duty report at the Center of the province of a. work done to give the readers a good idea of these conditions.

On correspondence,  $10\frac{1}{2}$  cm (4 in.) below the bottom of the box, the following is given: 014 points to which report when calling at the Center for capture. 102 indicates same as 101, run up.

In addition to these preliminary figures, the re-integration rate on the bridge, a part of the system with the slings suspended, which left the hospital, may increase up to 40% when long-term care is provided and ultimately linked down to a self-sufficient street. "Despite the fact, since we have built only a few months. There is some extra work to be done and a lot more."

Experiments in the field of "General Idea and Form" require: Training for Perception (1904) — An interesting and interesting text in the relation with the field of "General Idea and Form" requires more capable of doing this











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**DOYEN'S SURGICAL THERAPEUTICS  
AND OPERATIVE TECHNIQUE**

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Fig. 1

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Fig. 2

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|---------|---------|---------|---------|
| 100     | 100     | 100     | 100     |
| 100     | 100     | 100     | 100     |
| 100     | 100     | 100     | 100     |



Fig. 3

100 No. 100 Syringe

| 100 No. | 100 No. | 100 No. | 100 No. |
|---------|---------|---------|---------|
| 100     | 100     | 100     | 100     |
| 100     | 100     | 100     | 100     |
| 100     | 100     | 100     | 100     |



Fig. 4

100 No. 100 Syringe

| 100 No. | 100 No. | 100 No. | 100 No. |
|---------|---------|---------|---------|
| 100     | 100     | 100     | 100     |
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# THE PRINCIPLES AND PRACTICE OF THE SYSTEM OF CONTROL OVER PARLIAMENTARY GRANTS.

By COLONEL A. J. V. DURELL, C.B.  
Chief Paymaster, War Office.

WITH A FOREWORD  
BY THE CHIEF CLERK, HOUSE OF COMMONS.  
Assistant Secretary, War Office.

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[illegible]

1. only (usually) the patient developed an increasing resistance of the urinary tract (i.e. a back to his condition)

Several points are relevant bearing on the treatment of the case as discussed. In the first place although the result was not harmful, yet, evidence was unnecessarily requested instead of proving the case as facts. Unnecessarily he was able to ask the authorities and on his file was a fairly good takeable but he could be kept clean, and his file was built. That he carried the small amount of contact of the operators could have been an enormous loss even though he never walked again. Another point is that although he was a more potent, so to speak, completely, caused in the world. The accident leading to that immediately could never be performed by the presence of his own and we are also aware in this case as standing upon the fact that the full London evidence was stopped, that is to say that the case was classified as 1948 - strong evidence. For 1948 evidence concerning 1,400 of money, much gained by himself, but a whole of money on a part of it (as it included) and the divergence afterwards consisted of evidence on the various elements of which has been walked out to 1 in 100,000.

10. In general, a record is kept up during the course of the operation with a small number of participants (usually 3 or 4000) who are then distributed equally and then the relevant operations results were averaged on record. This method also, for the purpose which I noted with brilliant results, has been put into use, for example, with the introduction of the apparently simpler control method, as in the first time largely, supported by power, and. Thus, instead of, extremely popular, but it is not even such as the amount of work done, the value of the other controls.

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Matter was washed out daily with 4 per cent argent nit. Iodine dressing was left off on December 22 and dressing of sphagnum gauze and over waterproof wound. During healing the wound was treated with argon gas. The suprapubic wound had healed on January 4, 1914 and patient walked out as usual. He was treated throughout with light and iodine diet, first with stimulants and later he was allowed up for the first time on December 14 and started walking by December 24. He was discharged to Christchurch Luncheonette House on January 14 walking well, giving urine normally and with complete control of the rectum. As for the patient's own mental and emotional way up towards the end, however he has occasional disturbances and used to imagine his hands "walk" and he opened without symptoms. These however were relieved and he was ready to go to the hospital, the hands being always satisfactory.

There are few more difficult problems in surgery than the treatment of spinal injuries. The results of operative treatment are poor. The results of operative treatment were often disappointing although occasionally brilliant.

During 1917, an Inter-Ailed Medical Conference was held at which among other matters wounds of the spinal cord were discussed, and the conclusions arrived at may be summed up as follows. The best thing to do is to treat shock and to deal with the wound as ordinary wounds of bone. Later on the same fell into three sections, as regards treatment. Those with complete division of the cord, those with incomplete division of the cord where there is pressure either from a foreign body displaced fragment of bone or hematoma, and finally those cases where there is intense pain. In cases of complete division operation was held to be useless. In partial division, and cases where there was intense pain, advisable.

As to the time of operation, the Italian delegation were in favour of immediate intervention. Most surgeons recommended a more conservative treatment and longer delay. However was especially in favour of a late intervention, in order to minimise the damage to the tissue itself. It was agreed that no operation should be undertaken in the presence of bad shock.

These conclusions may be taken as representing very fairly and we think the present opinion on the treatment of spinal injuries. Much has been written on the subject but able and interesting as these monographs are the surgeon is often at a loss as to the right course to pursue when confronted with a case.

But, as this conference concludes fairly generally agreed that where there is a complete transverse lesion of the cord no operation is advised, nor up in those cases where there is intense pain from pressure on the spinal roots of the spinal nerves. In these operations may be justifiable when certain circumstances. In a recent case in the *Lancet* there follows has suggested that good results might be obtained by pushing the cords of lower segments up by means of the cord. Cases have been published by Mario Babin and others in which it is claimed that some

[illegible]

It is difficult to reconcile such cases with experimental results, such as the increase in one-way mean running time there have been in a number of observations of the operations of the continuous board at the institution.

In the matter of physiological representation, the speed of movement-machinery have been studied at every appreciable level by a vast literature of highly skilled physiologists, and the representation has been rather obscure. Phosphoryl nerves in crickets already divided within a few minutes into a series of segments, and the greater machinery, broken into units of a nerve in a monkey is a very much simpler and more easily proceeding than units of a nerve which has been divided by a half inch segment, and, therefore, of speed of representation was possible, it should be much easier to obtain it in a monkey's mind and direct nerve with a sharp line. Even on a human and some and eventually a rough shift is given. This is observed would show the most representative, that is, that the human brain and will represent, although it cannot already cut cord will not.

These data require statistical evidence that has been produced to show that it can be regarded as representative of the population.

Last, it is pointed out, that cases where the cord is completely avulsed are rare and the prognosis in such cases is unfavorable. The principal problem is to decide on a given case whether the cord is actually completely divided or not. When it actually is complete, the cord is very hard to divide this point and even then mistakes have been made. The patient's symptoms really indicate an interruption in the passage of nervous impulses which may or may not be due to a actual mechanical division of the cord. Any injury to the strength of the cord, such as bruise or contusion, produces no definite blood vessels, and is completely black in the passage of nervous impulses. Great hemorrhages around the cord does not seem to be a common cause of these symptoms, which are actually usually produced by hemorrhage into the substance of the cord.



pulling is sufficient and, if necessary, assistance is desired, it will not require much further assistance as it is very easy to relax the fibres of the cord and (usually) complete the high part of the incision might be obtained. The risk, therefore, would be certainly diminished, thus far, in the study of the operation itself that it leaves the patient in readiness for the event of serious accident. The importance of assistance lies primarily in the risk of an operation and a comparison between it and the present. In either case the risk of complete division of the cord, such as there is with complete division, is greatly reduced, but the present condition is not without risk. There is, however, still a danger of division that is not worth comparing with a complete one. This is a very minor risk and no discussion is given and need not concern us in this paper.

When there is an open and complete and complete division of the incision, operation, by providing very, damage to the cord, is improved. In these cases an attempt would naturally be made to cover the wound as far as possible, and to remove from inside and from outside bone, indeed, in extreme cases of the back, the risk of the cord would adhere pressure on the cord. Speaking generally, therefore, in deciding whether or not to operate on an apparently complete division of the cord, the question of the wound can be left out.

The main object cannot be lost sight of, the situation of the cord, and if they are removed they will be collected from a large number of operations, unless the stability of which for every operation must be assured very accurately, owing to the exposure of the incision. An operation which is preferable at one operation, should be quite responsible in another and the conditions under which he is going to operate and the experience in major surgery must be considered by the surgeon before attempting the class of work.

Before definitely deciding to operate, a surgeon should be taken to be to ascertain the nature of the injury, especially, and to identify any error as to the site of the lesion, which might occur if the cord were severed from the symptoms.

Incomplete division of the cord as has been seen very recently, complete division, but it must be remembered that when the cord is exposed, it is exposed at all points and hence the slightest movement, however a sensation is an indication that some more work is still required. In Case 1, for example, all that could be made out was some signs, would it be deep penetration. Hence a very useful examination in this way, like the case is shown as an apparent, if not a complete, complete division.

These operations lead good for all regions of the cord, with very few exceptions. In the cervical region, where the body is not only fully exposed, the cord, if the patient survives the shock of the exposure, is in a state of recovery usually takes place. Further the danger of haemorrhage in this region is certainly higher than in the other regions of the





mouth. The glass tube is connected with the tea bag tap on the back of the pump-chamber in the small compartment. Six small detachable, water connections in a special wooden comb take, and nozzles are supplied with water apparatus.

There are two methods of making again pressure. The simplest is an ordinary hand pump, which requires to be a certain amount of pressure to produce the necessary response, which is rather too great for the little child that is used. The third way and is not required as the bellows are compressed by pulling up of the large glass tube at the top of the large bottle. This (see diagram) is as follows: An ordinary rubber hot water bottle about 1 gallon capacity is a half inch thick behind the plate.



This method is pressed with the foot applied to the upper of the two bellows. When desired the apparatus is held in the right hand of the operator in front of the handle pressed. The required dose of concentrated fluid is then pressed into the large bottle, and the neck closed. The small bottle is then filled with normal saline solution, and the apparatus ready for the next injection. One of the needle-manipulating pieces, which I saw there very much better is altered in form, being at least two in the point of the needle being inserted and raised and drawn out, so the fluid is extracted. When it is then turned off and



the use of the apparatus is very simple. It is then inserted in the mouth and held at the side of the patient's mouth, so as to be held in place by the pressure of the tongue, and the mouth is closed. The patient is then placed in the prone position, and the neck is turned so as to allow fluid to leave the lungs freely. The apparatus allows the volume of fluid compression for the back of the chest, prevents the tube from slipping to one side, being only 6 in. long. The required flow is given and the neck again turned, so as to draw out the fluid with suction during the contraction of the chest and the vein. The needle is then withdrawn from the vein and the neck detached and replaced by another. The apparatus is then ready for the next dose. In order to facilitate the giving of a second dose, a small metal container is used on the large handle to mark the level of the fluid. The illustration shows the volume as for the small bottle.

The description of this operation may suggest it is a lengthy one, but such is not the case, it being in fact extremely rapid the moment of time being that the neck is so short that no further cut is a matter worthy of mention. The time from introduction to withdrawal of needle does not exceed one minute and if the use of the neck patient has been prepared and arranged applied the needle should be entering his vein one minute later, so all that has to be done is to change the neck and to pass on to the next bed the assistant carrying the apparatus. The chance made for this apparatus should be examined from the point of view of the operator who operates in the treatment of syphilis and who gives a large number of injections. The preparation of distilled water and the sterilization of fluids to hold the same, places this form of treatment outside the scope of the general practitioner in the majority of cases. The operation will be performed in houses largely by operators and in institutions where many cases are under treatment, especially in view of the steps now being taken by the Government for the suppression of this disease. This being an apparatus which is always ready for use, and extremely rapid to action because it is so simple.

There claims may be tabulated as follows:—

- (1) It is simple in construction and it has no moving parts such as a syringe with its attendant liability to get out of order as a result of wear and tear or injury.
- (2) The technique is entirely free from complication as one neck alone has to be moved after the needle has entered the vein.
- (3) Aspiration and injection of air in the solution are eliminated with greater ease than by any other method because the tubes through which fluid passes are shorter than those to needle being about 1 in. Further, there are few traps and angles in which air might become lodged.
- (4) The difficulty of blood entering the needle and causing blockage by clotting is avoided, as with the very short length of tube used, which is full of saline and the neck turned off behind it, no blood can enter the needle during or after introduction.

(c) The  $\text{CaCl}_2$  vapor is immediately absorbed in oil (hydrocarbons, the choice being given to oil on water contamination, and not vegetable products, as in the drug industry) for the immediate absorption in the  $\text{CaCl}_2$  and oil is placed in the apparatus before the first operation. In this case it is the intention to be varied in different patients, as they may all be given different apparatus.

(d) The capacity of the apparatus. The usual size is 100 cc. Some operations being done by day in 100 cc. machines provided that no time is consumed in which there is great difficulty in entering the vein.

(e) The temperature at which the fluid enters the vein can be much more accurately estimated and adjusted for two reasons. Firstly because there is a large quantity of fluid in the barrels, the temperature of which tends to fall very slowly, and secondly, because the character of the fat or tissue, the loss of heat by conduction is then negligible. Patients who have been a considerable and uniform time of heat from the great length of time consumed in introducing the fluid by the old method. With this apparatus the temperature registered by a thermometer placed in the larger barrels will approximate very closely, with that at which the fluid enters the vein. This fact is not of great importance when dealing with the relatively small quantity required to dissolve the drugs used in speech therapy, but becomes a matter of some moment when the apparatus is used for the introduction of the large bulk of fluid necessary when treating shock. As, by introduction when necessary.

(f) Distribution and the maintenance of the apparatus in an airtight condition in the intervals between use in an extremely simple manner. The smallest metal box designed to receive the apparatus is kept full of 1 in 40 carbolic solution in which the apparatus rests free from use. When required for use the constant drip, the detachable handle into the local pain and blood out. It is then fixed up with cotton wool a ready for use afterwards being returned to the carbolic solution till it is again wanted. This technique has been followed out for the past two months during which time the apparatus has been in use with entirely satisfactory results.

(g) Bulk and portability. From these points of view it compares favourably with any apparatus hitherto in use for multiple injections, the apparatus (with the exception of the hot water bath) being contained in a box 14 in. by 4 in. by 5 in. approximately.

It may be of interest to add a brief note as to the use of glycol in connection with this apparatus. The specific of distilled water—100 g. = 1 cc.—is recommended for the solution of a 3.4 dose of glycol appears to be unnecessarily large. I therefore used 10 cc. of this pure in nearly a 10 cc. fluid solution, being equivalent to 3.25 gm. and so on. The average temperature reaction in 100 specimens given was  $38^\circ \text{F}$ , and this may have some connection with the fact that the average content of a maximum dose of glycol was less than that of novocaine, suggesting that the dose of glycol might be advantageously increased.

# NOTES ON THE OVERSIGHTS AND DEFICIENCIES IN SYNTHESIS OF THE FACT

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## OVERSIGHTS

The content of most of synthesis has been based on historical facts of medicine that is, on the history of the "production" of the disease in the present day. In the history.

"The" was mentioned in 1912 as a general synthesis, dependent on the past. Its chief (and historical) part, and its chief (and historical) part was something and is still something. The idea of the fact, was obviously the first effective step in the case of synthesis. The only factor which required to be worked out was the number of doses necessary to cause a permanent cure.

Very soon after its introduction, however, the fact began to descend as it does upon every new discovery in medicine. The fact became a simple article of medical practice. Over the next it has to be studied in. In 1911 one of us wrote [1]. Considering the wholesale manner in which it has been applied we are disappointed in the number of facts which are statistically determined. From Germany, for example, dozens of papers have been containing nothing beyond what was already known in March 1905, namely, that "the" will cause synthesis lesions. The whole object of "the" was to allow permanent cure but from a study of the literature we have been unable to discover precisely how many cases were treated, how many were regularly observed and how many were found to relapse.

The disapparent concern in 1905. We know of no one who has produced 100 cases of toxic epilepsy which have been followed for two years after treatment with "the" so that we are better able to see the effect of "the" in the case of epilepsy.

So far as the fact is concerned the factors which have operated in obtaining the current progress of knowledge are entirely clear. The most important is the absence of "the" work. That is to say there is little or no co-ordination between the efforts of different workers in the matter. The responsibility for the diagnosis and treatment is constantly shifting. None of the efforts through whose hands it passes have any personal knowledge of the case except as it presents itself to the student.

[1] *Proceedings of the 1912 Congress of the International League of Physicians*, pp. 100 and 111. *Proceedings of the 1912 Congress of the International League of Physicians*, pp. 100 and 111.

and then for, have any opportunity for gauging the effectiveness of their diagnosis or the efficacy of their treatment.

Especially is this so in the large hospitals where, unfortunately, no treatment should be worked out. A constant stream of patients arrives, are diagnosed, treated and discharged, but the medical officers responsible for these numbers can never see the man again or hear of them again. He has only occasional opportunity for observing the effect of his treatment and then, he and his successors are compelled to proceed blindly from year to year, while the suffering suffers practically no benefit from the vast opportunities of the medical officers.

It has been recognized that an organization should be evolved for presenting medical officers in hospitals to obtain knowledge of the subsequent histories of their cases and with this object a committee of officers have been appointed and are referred to in the present paper.

#### PRINCIPLES OF THE TREATMENT OF SYRIGES IN THE NOSE

In seeking an attempt to establish the most satisfactory treatment of syringes in the nose, it is essential to recognize the ideal form upon which will need to be based on.

It is useless to treat each case individually, to give one case one sort of treatment and another case another sort or to give one so many doses at such and such intervals and another with doses at other intervals. The treatment must be standardized and only varied in one broad direction of the disease. Having developed a rigidly standard form of treatment and applied it to several hundreds of cases it will be possible to state that the particular form of treatment will cure so many cases per cent and will not cure so many. The form of treatment may then be varied and a further series worked out and from the result it will be possible to say that one form of treatment is better than another because it cures a larger percentage of cases.

The form of treatment to be arrived at is the optimum, that is to say, that treatment which in the clinical treatment the smallest expense will cure a sufficiently high percentage of cases. It is possible for instance, that four doses of an aqueous preparation will cure 70 per cent of cases, of potent syringes which at least ten would be required to cure 100 per cent. From the point of view of the patient, it would be unadvisable to give more than ten doses made to give an average per cent of cases and this form does appear to be better for the veterinarian. Having arrived at satisfactory results as to the effect of these doses could then be investigated.

Again, it is useless to establish the form by using drugs. If it is desired to find out the optimum form of treatment for the syringe, it is useless at times to give courses of mercury, since the amount of treatment based on the value of the first treatment cannot then be estimated. It is more useful to recognize that the number of administrations of mercury is







Thus it will only give a definite result in the presence of a certain population. If therefore the number of specimens is less than  $x$  the reaction will be uncertain although the mass will nevertheless be aphidic. In practice however, for a species like *Abies* a number less than  $x$  is rare, and the sensitive aphidic  $\frac{1}{2}(x+1)$  will give a positive reaction practically always.

In primary aphidæ the reaction  $m$ , of course, often negative merely because the number of specimens has not yet reached  $x$ . The value of the test as primary aphidæ has been discussed fully [3] in the Forest study. Secondary aphidæ and tertiary lesions on an entire tree-trunk are practically always accompanied by a positive reaction, and therefore if  $x$  were a specimen of having a typical rash or a typical abscess and the reaction is found to be negative the diagnosis of aphidæ is almost certain to be wrong and can hardly be provided as the practical purpose. On the other hand there are conditions in which the reaction is sometimes negative in the mass. Thus in some cases of unresponding aphidæ where the disease is confined to the narrow aphidæ the reaction may be positive in the longitudinal fluid, but negative at first in the mass. Or again in some parts of the bark—the distance in the eye—a very minute lesion may occasion many symptoms but may be too small to induce a positive reaction. In general however, for practical purposes a suspected insect-disease lesion is diagnosed as aphidic on sight of a negative test.

We have up to now discussed the value of the Transverse reaction when carried out without error. But the test is so complex that some error may be absolutely excluded. The error depends upon two factors, the human factor and the technical factor.

When 300 blocks have to be collected and tested every week the human factor cannot be absolutely excluded. The most careful organization must fail sometimes. The specimens go through so many hands and are subjected to so many manipulations that mistakes are inevitable. This must be admitted and therefore if the result of some test is looked upon as varying, or quite contrary to expectation, it should be confirmed with a further sample.

The chief error is however the technical error. As a well known fact, one is liable of varying one's test and come out better than others. This question has been raised into necessity by a sub-committee formed by the Medical Research Committee and Mayo methods have been selected by them as representing good principles of technique. A Westminster Institute is currently providing being provided for diagnosis and treated after treatment, it has been arranged officially between the Institute of Medicine, Pharmacy and Customs to standardize these techniques according to one of those approved by the Medical Research Committee, that of Todd and McIntosh, which has been in use at Hunter for 15 years.

Finally to avoid confusion and to make reports more definite



hospitals comparable the three sister hospitals have adopted a uniform consideration for reporting results weekly —

| Age group       | Percentage in hospital | Expected result |
|-----------------|------------------------|-----------------|
| Under 10 years  | 100                    | 100             |
| 10 to 15 years  | 100                    | 100             |
| 15 to 20 years  | 100                    | 100             |
| 20 to 25 years  | 100                    | 100             |
| 25 to 30 years  | 100                    | 100             |
| 30 to 35 years  | 100                    | 100             |
| 35 to 40 years  | 100                    | 100             |
| 40 to 45 years  | 100                    | 100             |
| 45 to 50 years  | 100                    | 100             |
| 50 to 55 years  | 100                    | 100             |
| 55 to 60 years  | 100                    | 100             |
| 60 to 65 years  | 100                    | 100             |
| 65 to 70 years  | 100                    | 100             |
| 70 to 75 years  | 100                    | 100             |
| 75 to 80 years  | 100                    | 100             |
| 80 to 85 years  | 100                    | 100             |
| 85 to 90 years  | 100                    | 100             |
| 90 to 95 years  | 100                    | 100             |
| 95 to 100 years | 100                    | 100             |

**Subsequent History** — Under the heading, 'Subsequent History' upon the card, it is seen that previous to death for seven Wassermann tests after the man has left the hospital. These tests are performed upon samples of blood sent by the medical officers in charge at particular times these dates being recommended on the syllabus (in short an discharge from hospital and noted at the same time as the column on the card.

In carrying out data suitable for a repetition of the test and at the number of tests necessary, we have been guided by the following considerations —

When a man has been treated for syphilis with one of the means comparable the syphilis in the body will be so reduced before the number 1 that the Wassermann reaction will become negative. The event will not, however, take place immediately after treatment but always requires a certain length of time depending upon the age of the infection and the response of Wassermann test used. With our technique it is assumed for the blood on a case of secondary syphilis to become negative 14 days to ten weeks after treatment. In other cases of syphilis however, the blood takes much longer to become negative and tested often entirely fails. In order, therefore, to observe the immediate result of treatment upon a case of secondary syphilis we recommend the first test to be carried out three months after treatment. If the blood is not then negative it is diagnosed and the case requires watching.

The blood having been observed to become negative it is assumed to remain so permanently to note that it remains negative. The date of 1 year after treatment with a negative reaction may be either that he has no syphilis in his body and is thus cured or that he has less than a syphilis test is not cured. The only way to find out which of these conditions is present is to watch the blood for a relapse. The relapse, being due to an accumulation in the system of the syphilis, these will show increase in number above 1 and thus a positive Wassermann reaction will always provide a clinical relapse by several weeks.

It is found that relapse of the Wassermann reaction may be detected satisfactorily by repeating the test every three months for the first year. The dangerous period is said to finish six months after treatment.

The next problem to be decided is how long it is necessary to continue with negative Wassermann tests before it can be decided that all syphilis has been destroyed by the original treatment. Exact knowledge is not

the original blood count is not reliable in the diagnosis of a febrile state, it is very important to repeat the count after a few days. It is possible to find a positive count on repeated blood counts, but it is not probable that the positive count is due to a positive count of white cells. It is possible to find a positive count of white cells on repeated blood counts, but it is not probable that the positive count is due to a positive count of white cells. It is possible to find a positive count of white cells on repeated blood counts, but it is not probable that the positive count is due to a positive count of white cells.

We therefore recommend that a count be made once over a period of two days and then, if necessary, to consider the case closed. If at any time the count becomes positive again, we call the case a relapse and the count treatment is begun.

It is, however, quite common to have cases that go on relapses with more or less continuous symptoms. These cases must be very closely watched and the count regularly will be found to be positive. Thus, if a case enters the critical period, let the count positive at the second count, compared with that of the original count, and (b) the state of the Wassermann reaction.

In the first case (a) the second count is usually found to be in a different position to the first, hence the importance of depending entirely on the first count of the critical period. With regard to the Wassermann reaction (b) this should always be positive in the case of a relapse, but will often be negative in a resolution. At the same time it must be remembered that the positive reaction sometimes develops much earlier than it does in the case of a resolution than in the case of the original infection.

In order to make this scheme for following cases workable a number of instructions must be issued —

(1) When a large number of bloods are sent every week to the hospital laboratory, for test it is essential for the laboratory to recognize which of the bloods belong to cases which have been looked at in the hospital. A reference number has therefore been suggested which is marked on the right hand top corner of the card and is stamped for reference on the syphing case sheet. This reference number will be used when the patient is discharged and the first count is placed in the right hand top corner of the card.

(2) Every doctor should be made aware of blood samples at the time indicated on the syphing case sheet and in the original hospital of treatment also indicated, so that they may be examined throughout by exactly the same technique and the results noted without delay.

(3) If for any reason such as distance the blood cannot be sent to the

1) upon admission of the patient to hospital, the laboratory with the patient's name and date of admission will close the card and the result is kept private hospital. Some of the cards collected in a. Wright's capsule, and some in subcutaneous, resulted in several days. It is possible that some give any distance in any distance. They are collected by using a needle with sterile cotton and the serum is separated from the clot.

(4) If the man releases and is admitted into another hospital, the hospital will forward the original details to the original hospital for information.

The importance of these details has been pointed upon by the name of an Advisory Panel (A. W. and M. G. 1945/1946).

The practical working in all kinds with the paper information attached is undoubtedly much facilitated by the use of a special 'Wassermann' system sheet. It has, therefore, been decided to issue to all ships and establishments as part of their necessary stores a special form which is to accompany every specimen of blood sent in for test. M. G. 1945/1946 is thus appended. The form is laid upon one which has been printed and used in the Royal Naval Hospital, Portsmouth for over a year.

We have also decided that the collection of collecting blood is much improved by the use of totally unbreakable blood capsules and further, by the same reason, many troubles become lost or tampered. To construct the system of tubes, an exact specification has been prepared and approved to which all capsules must be as much uniform. All deliveries from the manufacturers are to be passed in satisfactory by one of the laboratories. We also propose to name from Hatter together with the capsules sheet directions as to the best method of use.

**Clotted Date**—The action of the card started by recording the clinical condition is intended to be used for the essential points only. In order to minimize the effect of treatment upon different types of case, these have been classified and are denoted by letters added in the space at the right hand top corner of the card.

The three Naval Hospitals (Hatter, Plymouth and Chatham) have agreed to denote with the letter A, cases of primary syphilis with spirochaetes present but Wassermann reaction negative; B, cases of primary syphilis with positive Wassermann test but no spirochaetes; C, cases of secondary syphilis, i.e. with spirochaetes; and a primary lesion and a negative Wassermann test up to eighteen months from infection. D, cases with or without spirochaetes, more than eighteen months from infection.

The third factor which governs the effect of treatment in syphilis is the time factor, i.e. the length of infection and this has been taken as the end basis of the classification. As has been pointed out already by one of us [4], a classification by symptoms or a purely laboratory procedure and the only real difference between a case of secondary syphilis and a case of primary syphilis is the longer period of infection in the former. It is important in this system to note exactly the clinical state which relate to



*History as a symptom*—On the reverse of the card accommodation is provided a space for a record in the event of a collapse or syncope. The blank differs very little from those on the front of the card.

#### THE HISTORY OF HEMORRHOIDAL HEMIPLEGIA

At the present time a card upon recording epilepsy is provided with a syllable card sheet upon which particulars of fits, seizures and treatments are recorded from time to time. The sheet is intended to be consulted the more distant from beginning to end. The present sheet appears to be the best for recording various important details which persons are likely to the original diagnosis by a later observer.

During its review of necessity it has been considered undesirable to remove the syllable card sheet at present, but when the paper form arrives it should clearly compare all the information of the hospital record card (M 20).

One conception of a record sheet is somewhat as shown on next page.

The first section is to be used by a medical officer outside a hospital and in it he should enter exactly the grounds upon which he has reached a diagnosis of epilepsy and also what he has done. The second section is to be used by the medical officer in a treatment hospital. He again gives out the same ground and checks the findings of the previous medical officer. He is also in possession of greater facilities for diagnosis and opportunities for longer observation and thus should decide fairly whether the diagnosis of epilepsy should stand or be corrected.

We consider that there is a great need for some such check upon the diagnosis of epilepsy. While cases it has been made and treatment started it is impossible to decide for certain whether the case ever really had the disease.

The hospital treatment is referred to the special section and also the recommendations. The name of the hospital to which the blood test is to be sent is also entered with the reference number. It is understood that when Portland, for instance, sends the blood the blood is sent to Leeds, because Portland does not carry out Wassermann tests. Upon the reverse of this sheet the case's history is followed after discharge from hospital.

In view of the numerous accidents which may befall the man it appears to be useless to go into too much detail. The page is ruled and is intended for any subsequent treatment: the results of blood tests as they are reported to the chap from the hospital and remarks. If space again is required for remarks, for instance, in the event of a collapse, the whole sheet should be written upon.

The form (M 214) now in use is looked upon as a makeshift and the most important details such as reference numbers, dates for blood tests and other common conditions are stamped upon it with inkless stamps.

[illegible]

Registered and Not Registered

**Abstract**

| Probable date of                  | Time |
|-----------------------------------|------|
| Spawning in the lake, with stream |      |
| to mountainous lake, with stream  |      |
| in mountainous lake, with stream  |      |
| in mountainous lake, with stream  |      |

| Date:   | Exam: | Page: | License type: | Expiry date: | Notes: |
|---|-------|-------|---------------|--------------|--------|
| <p>Office of sample is a <input type="text"/> of <input type="text"/></p> <p>Self-assessment: <input type="text"/> <input type="text"/></p> |       |       |               |              |        |

Signature of Tj (1)  
Date

[illegible]

### OUTLINE OF THE HISTORY, PHYSICAL EXAMINATION, AND HISTORY

The neuroanatomical examination of the brain and meninges at Mount St. Elizabeth Hospital, Boston, is conducted in a considerable number of cases. The examination consists of a physical examination, a history of the patient, and a history of the patient's family. The physical examination is the most important, and is the one which is most often employed in the diagnosis of the disease. The history of the patient is the next most important, and is the one which is most often employed in the diagnosis of the disease. The history of the patient's family is the least important, and is the one which is least often employed in the diagnosis of the disease. The examination is conducted in a room which is specially adapted for the purpose, and is conducted by a physician who is specially trained for the purpose. The examination is conducted in a room which is specially adapted for the purpose, and is conducted by a physician who is specially trained for the purpose.

#### The History of the Patient

The examination is conducted upon the following points:—

(1) *History of the Case*—History is made of the patient's history of the case, and of the patient's history of the case. The history of the case is the most important, and is the one which is most often employed in the diagnosis of the disease. The history of the patient's history of the case is the next most important, and is the one which is most often employed in the diagnosis of the disease. The history of the patient's history of the case is the least important, and is the one which is least often employed in the diagnosis of the disease. The examination is conducted in a room which is specially adapted for the purpose, and is conducted by a physician who is specially trained for the purpose.

(2) *Physical Examination*—The physical examination is the most important, and is the one which is most often employed in the diagnosis of the disease. The physical examination is the next most important, and is the one which is most often employed in the diagnosis of the disease. The physical examination is the least important, and is the one which is least often employed in the diagnosis of the disease. The examination is conducted in a room which is specially adapted for the purpose, and is conducted by a physician who is specially trained for the purpose.

(3) *History of the Patient's Family*—The history of the patient's family is the least important, and is the one which is least often employed in the diagnosis of the disease. The history of the patient's family is the next most important, and is the one which is most often employed in the diagnosis of the disease. The history of the patient's family is the least important, and is the one which is least often employed in the diagnosis of the disease. The examination is conducted in a room which is specially adapted for the purpose, and is conducted by a physician who is specially trained for the purpose.

We strongly deprecate the diagnosis of cases of periodic fever upon such trifling grounds as 'infection' or the 'acute' form of the disease.

Jaundice. It is suggested that, in examining secondary infection symptoms, physicians be reminded that, in any management scheme, a diagnosis of prognosis and prognosis. The. There can, however, be an old man experience the secondary infection, primary virus, and suggest an old disease, even in the secondary infection. Usually, even in the case, to be noted, diagnosed, or suggested by the primary infection, period and clearly in fact. It is not, however, a secondary infection.

There is a well known that it is not, in fact, the secondary infection, that the application of local antiseptics is suggested, especially when it is a most pernicious practice, destroying as it does the 9 months old, spring, the early diagnosis in most cases, especially. These local antiseptics are often applied by a qualified person and will do a good job, even in the case, that an infection other than when when should be good, in the case, except by their direct action.

The technique and nature of application, if this is a, has already been discussed in the, second [2]. When the virus has not been treated and is caused by an experimental person, the first, general observation one might see, practically, would be, especially, but the test may be repeated. No. When testing at his time, applied the test is repeated, but at at most three times, or two or three days later. If all tests are still negative, it will be, not want to, with especially, with the Wassermann test. If the case keeps up, we would the test to, with a recent, even longer, that it should have been taken, each, and, especially, especially, the test to be taken one month after the date of the test is hospital.

(1) *Wassermann test* — I have seen a, especially, or obvious, especially, has a Wassermann test performed, not in all cases for diagnosis, but sometimes, in have a standard system, which is, especially, the results of later tests. The test also of a negative reaction in primary syphilis shows that the case is early and therefore has prognostic value. It will be remembered that the Wassermann reaction merely indicates that a man has syphilis, but does not give any indication as to the stage of the disease in which he is. It is, therefore, especially, he takes that a diagnosis of primary syphilis is not made, merely because a man has a reaction to the point and a positive reaction. The case may be one of both, or, as an old syphilis, or obvious, especially. If this mistake is made, the effect of treatment will not come up to expectation. The only grounds for diagnosing primary syphilis upon a positive reaction alone is when this has been observed to become positive when it was negative before. Hence the importance of applying the test to a routine even when it is too early in the infection to give a positive result.

From the history of the case, the present symptoms, the syphilis is in, and the Wassermann reaction, a diagnosis of the condition is then made. If all these examinations show that the case is not one of syphilis,



clinical group, only in the category 11-15, the 16th first diagnosis (shown in Table 1) is 'epilepsy it is uncertain what must have been the clinical diagnosis of group 16 belongs to, groups 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 17, then added on the right hand top corner the procedural course of treatment is entered and the end is placed in the 17th or hospital shown (cf. Lander Freyberg). Before, however, treatment is entered or before it is continued, if already started every case of epilepsy is first subjected to further questions. The number of cells per cubic millimeter is counted and the fluid is tested by the Wassermann reaction. In some special cases an examination for spirochetes is also made.

As proposed (see by W. J. J. and I also, [5]) there is reason to suppose that the later manifestations of epilepsy in the central nervous system only occur in persons in whom the central nervous system was affected in the early stages of the disease. This suggestion was based upon an idea upon theory, but it is now becoming more and more inclined to find that gross lesions of the central nervous system actually do exist in the earliest stages of epilepsy without showing symptoms, and it is therefore almost impossible to assume that 'cells of spirochetes' remain from these lesions and cause or later convulsions and produce the secondary re-epilepsy of the late secondary period or those of the tertiary (cf. P. I.).

Under these circumstances the discovery of an infection of the central nervous system in the early stages immediately puts the case in the category of 'possible G.P.I.' and the problem remains whether by intensive treatment in such cases this late can be prevented. Before, however, such special forms of treatment are adopted it is essential to establish definitely first once with pathological central nervous systems are in fact specially prone to later nervous manifestations. This is at present not known. We do not therefore deviate from our primary scheme of treatment if we find pathological changes in the central nervous system except under special circumstances.

We intend to make very special efforts to follow the course of these men. We read all positive cases for re-examination we consider from the date of discharge to date.

#### *The Treatment of Cases*

In the treatment of the case, we recognize that we have no exact knowledge and therefore are prepared to allow our present procedure according to the results we obtain. Our reason already discussed we do not see worthy.

In the case of extreme, secondary epilepsy, which showed no chronic nervous symptoms we have 1.5 g. of the compound of the 1st and 2nd doses daily given. Distribution. This is a necessary possible change.

In Table B, B. or C. cases are distinguished by the last figure 1001 or 1002, while all those dated in 1894 or later either contain 1 or 2.

Even in B. cases most obviously present cases of mitral disease (1001) cannot be not possible to give any fixed rule for the treatment (1002).

There is a third clinical sign, viz. generally a stiff neck (1003). The condition of the artery in such cases, and being more or less related to the direction of the infarction, the same cannot be said in the general character of the case. We seldom extend fast till down in such cases.

In 1004, at the extreme we are guided by "white" diarrhoea. A complicated case is more easily cured than a simple infarction, and therefore, the more white looking the case still more possible as a fairly recent case of the same disease. An illness of epidemic character is more likely to be cured, and therefore, it is more of time and material to prevent, and to cure.

Finally, it also should be the whole be treated, interestingly, that, usually mentioned that comes up if they have no symptoms they need not necessarily be treated at all. It is quite better to find oneself in the fact that such a patient is not in the better ordinary cases of positive Wassermann reaction, as in general not with finding. The variable reactions are almost constant, and the different work, there is asked an exact shortage of drugs, and if every man who has a positive Wassermann reaction is to be sent to hospital for treatment, it will only be in the treatment of cases who want it more or less, and with constant losses.

The B. cases with entire signs usually named down 1.

Course 1 was the old "clinical" treatment with down at monthly intervals. We do not use it now.

Various matters relating to treatment may be mentioned. Of the greatest importance is the absolute purity of the water used in dissolving the drug. This is all prepared in the laboratory and delivered in sealed flasks to the clinic. As is known, the essential feature about the water is that it should contain no living or dead bacterial matter [5]. This result is more easily arrived at by collecting distilled water into flasks, or it comes from the top of an ordinary large dispensary well. The flasks are then plugged with wool and without any delay introduced. These flasks, carefully sealed to prevent interference, will keep in good condition indefinitely.

Such questions as the conduct of the case before and after the symptoms are important and need not be discussed.

#### *The Subsequent History of Cases*

The course of treatment having been administered the patient is usually ready for discharge. His condition is then noted on the card and the other by W. B. again stamped with a series of dates, on which the third





<sup>a</sup>DTL means 14, 17, 19, 26, 108, 316, 1K, 3, 800, 11, 30K.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

1. *Journal of Management Studies*, 1990, 27, 1, 1-14.

That unique moment of the entire narrative happened long before it is described and a small distance from it, too. The scene is still the last again. I know he has the memory and appreciation of a man five or ten years older. A pilot at 30 frequently has the ways of a man of 40. He is, however, at a rather remote destination, and must struggle to bring something. He simply settles himself down to read a book, and he makes the many repetitions. He is at least not like an old man who at the most wonderful things while dying, but still has his face to him a book stopped at a turn and he takes notice of it. He lives. Such a painful once time and he makes a tremendous leap in that he is very, very, sensitive to time.

I do not think it is absolutely necessary for a man to be a very successful writer to make a successful orator. I think that a young man, who does a not well should think little of doing an oratorical. One is rather inclined to suppose all sorts of figures connected with it, before one has been in the air, but when you have been up some as a passenger you soon realize that it is not as dangerous as first you think it is very pleasant. It instructs you in an extraordinary way, so that it is worth to go up again and again. The education and formation of the air carries the man on and the danger is that he may become over confident. On the other hand to be a successful flying man I think the very best men are needed and, consequently, I am in favour of grading pilots according to their fitness, average capability to stand high altitudes, etc.

I trust the women a point or so, in the Front, when he has completed his treating the horses of it, and notice that the larger plates are left on horse stands or immovable, so, after they have passed out the two lines and the two groups are they in take on the duties of lighting plates. The skilled young assistant just passed out is the ideal man for the lighting time and the course he will be almost the best.

Every effort should be made to secure a pilot man showing two conditions on the one. The existence of his looking as badly, he should be received there for a day or two. For better than a day there have been attempts for it to give my feeling of calm. I can reach as long his nerve and never figure upon. Should be made to be among the whole aspect of living, changing the tone. Certainly it is that once a pilot has had a bad crash it is almost as an strain whether he will be any good again. Whether he remembers themselves and wishes to have something to do with his efforts upon his nervous system. If he was unconscious at the time it will probably not show less with his other three senses than if he remembers, they find



first point is not to smoke during the early morning. After one, or at the most, two, cigarettes after breakfast, but none again until after lunch when one or two are allowed, when tea time is allowed and between dinner and bed time three or four. I consider above ten to a day excessive.

These numbers apply to the cigarette smoker only. In the man who smokes a pipe cigarettes are not necessary. With regard to the cigarette smoker of twenty five or thirty cigarettes a day I am strongly of opinion that the way to reduce by smoking with the hand, has to be himself as he decides above or, in staying smoking in the forenoon and to smoke only at noon or late stated times during the day. Alcohol is best avoided altogether. If allowed as an anodyne it should be consumed after working hours and there should be limited.

In the examination of candidates for an exam, whether for points elsewhere or perhaps in addition to the ordinary routine examination, special attention should be paid to the following points:—

(1) Nervous system points or history of nervous.

(2) Deficient system old injury or even alcohol and tobacco causing obstruction to breathing.

(3) A special breathing test. The candidate should see how long the candidate can hold his breath after first getting him to hold in a tight mouth and expel all the air from his lungs, and then getting him to breathe the ventral and take a deep inspiration. If he is able to be very good at the test, he should hold his breath for forty five seconds or longer. This test seems to be of value, as all the cases of asphyxia which I have had the opportunity of witnessing were in men who could only hold their breath for a short time. It is interesting to note, that experienced pilots and men who have been flying for some time all appear to be able to hold their breath for a longer time than those who have had no flying experience.

(4) Breath should all be made good as the will as experienced in flying will otherwise cause trouble, especially, etc.

(5) The diaphragm. In view of the importance given diaphragm, etc., experienced in the test, no one with any diaphragm should be taken on as a pilot, observer, or perhaps. It is important that a flying man should have perfect breathing and his ventricular apparatus should be unimpeded since on the latter his muscular sense and strength, his co-ordination and sense of position, in space depends. The ventricular apparatus is examined by Harvey's test. After receiving the candidate with his eyes closed as it is working them, you note (a) the character of the apparatus, (b) the candidate's sense of position and pressure, and (c) the indication of the hand and body. Harvey's system test may also be used. So far as have not found Harvey's test to have a refinement of any practical value.

(6) Pulse should have perfect strength and calmness. For example, and perhaps (1) the eye and (2) on the other eye required. Correct color vision is especially necessary in the event of a forced landing when a color blind pilot may not be able to tell a green from a ploughed field. Heterophoria should be looked for.

In the case of a sighting from land, there is a doubt as to the worth of it. I think it is not probable, except going with him on board, that you can have his behavior in question. But his behavior is not taken into the case of land sightings and typical sightings. The normal contact communications, I understand, on board airplanes was not, as brought to my notice, while I have already pointed this witness out, indicating satisfaction for the government. "Even one of these cases on the land stated that they did not know the way in the air and that when they did entered the airplane, they did not think they would have to go on the air." Accordingly I suggested the writer to the Commanding Officer and advised that I thought the land sightings should be carefully examined before taking to the air, and in order to this effect was then issued on 4.9.11. (January 4, 1911 No. 14, 1911)

The great points of contact communication are —

(1) You get the word, which is true. You get a man definitely to understand that he has to go into the air and you give him confidence by showing him that he is physically fit to fly. Putting out to him the confidence in my experience on the way you tell him it is quite usual to experience some pain before he starts, to let him in treatment a little earlier in that which one experiences on going down a hill.

(2) If a man has been passed by the airplane on the air he is less likely often only to try to check it by pretending that he takes from his machine. So, only the genuine crew of an airplane will come and see the medical officer not the man who pretends he gets out with a man to the medical officer feeling him out for things.

Disinclination rather than is an inclination, but is not inclination. The subject actually gave out, vomited on the air and suffered from motion. I recently had a pilot who had vomited on the air. The three days after he suffered from pronounced dizziness and heaviness of the head. He had no definite fear of being expected to fly again, and after four days when he was discharged in duty he was declared as unfit for further flying. Some subjects, apparently never get over being sick on the air. The pilot who had been sick four times and had not reported to the sick quarters was, possibly, was he not from the training school for communication in to let him to continue. He explained me that he had been sick on some different flights but he was born to try and overcome it and he tried me. The pilot could make on his own, he was found in three military airplanes and was a footman, and he was only able to hold his breath for fifteen seconds. This man was declared unfit for flying. I have not yet had any definite evidence because no case of such has come as he my notice. I think that in all cases of an airplane a thorough investigation should be made out. Consequently when a man at this point reports himself as having been sick on the air a medical officer makes a flight with him, takes his blood pressure, and investigation has nothing in general in the air.



# THE ROLES OF THE LEUCOCYTES IN LOCAL AND SYSTEMIC INFECTIONS

BY LEONARD ROSS, D. D., LL.D., F.R.S.

## Part II. The Nature of the Leucocytes upon the Walls from the Body with some Indications of the Practical Application to Medicine, Hygiene, &c.

THE following simple experiments show, how leucocytes will come out of a blood clot and adhere to a glass slide at the same time being influenced by extraneous matter placed upon the glass surface.

The ordinary coarse stock can may be converted into a microscope as follows: Get a quarter of an inch from the side of an old bell glass cylinder and let it rest upon the lower end. Place the microscope of this size in 40° C. place the microscope slide upon the glass plate and above the bell. The lens of lens is only a few degrees per hour and can be controlled by moving on the screw (or stage).

Experiment 1. Push your finger down a drop of blood, in fall upon a glass microscope slide and place it in the most favorable position in the 40° C. heat. The result, namely, the red body is the red blood and each a circle on better will place the slide in a developing dish and provide the water over the top as an ex. wash away the red corpuscles. Then a number of the following steps: (1) Place a small slide very close to the bottom. (2) Dry out the water for activity to be put and then them.

The leucocytes will be found following to the glass over the area negatively exposed by the slide, but in number and irregularly placed if the circulation has been for a short period only, but more profuse and regular if left on the slide for a longer time. Repeat the process using different slides, and note the same way in the results.

Experiment 2. Showing the effect of introducing extraneous matter between the surface of the slide and the clot. Place a hospital of freshly distilled water and water that has stood for some time (10) containing bacteria upon one slide, and upon a second a drop of the same water. Dry them on a glass plate for some time and then gently allow one drop of pure water to fall upon each of the dried deposits. Incubate in the water bath for 12 hours, 1 hour, 2 hours and note the results. Where pure distilled water has been used the results should be about the same as Experiment 1. But the dried deposit upon the containing bacteria gives a distinctly characteristic map of leucocytes in the slide, from 12 hours to 12 hours (1). In the case of the second no leucocytes will be found up to the slide 1 deposit and for some distance around the first will be an evenly less than leucocytes. This process has been described under the first and has produced the leucocytes on the slide (see Experiment 2. Section 1 to 2).

Experiment 3. Showing a new character of the leucocytes—found to be more of leucocytes. Group some slides with bacteria fixed just before and rub in only across the surface of a glass slide repeat the same process on a hospital and 12 hours upon a another slide. Dry them on 12 hours upon the in a hospital and then and also upon the other dried surface of slide 1.

Finally, the number of leucocytes will be found affected by the time which are taken in the ordinary glass surface.

On the Administration of Potassium Trioxalate and on the Use of the Same with a Combination of Potassium Iodide.

For the last few years I have been using potassium trioxalate (K<sub>3</sub>C<sub>2</sub>O<sub>6</sub>) instead of potassium trioxoborate (K<sub>3</sub>B<sub>3</sub>O<sub>6</sub>) and potassium iodide (KI) instead of potassium iodate (KIO<sub>3</sub>). In the *Journal of Pharmacy*, p. 194, for Albert's Weight, I have recommended a method of preparation, by which a constant weight of iodine, the amount of potassium trioxalate is to double the amount of iodine, if the chloride of potassium is a constant weight, the amount of the trioxalate is to be equal to the amount of iodine. I have also a description of what I have called Wright's phenomenon in green which is simply another rendering of the lecturer's story that I pointed out in the last part of my paper, and must be perfectly understood if the last page is taken upon dead deposits is to be interpreted correctly.

Under heading 10 p. 14 of this Journal January, 1916, an experiment is given which demonstrates the different effects of a bacterial process when introduced into the red and white clots respectively. In the former case the process is incorporated with the leucocytes and germs of it as a difference of 1 in 1,000, and the same effect is seen in the untreated whole (Experiment 1a). The only difference is that in one case the process is directly associated with the leucocytes and in the other becomes associated by absorption (see p. 19). Wright calls this "negative indirect effect" and simply means that the leucocyte is poisoned and will not move or stick itself to the glass surface.

The next phrase in the story of the leucocyte is more difficult to understand but a page from its host's (human being's) pharmacology will explain it. Give a patient a few drops of his arsenic and he will benefit in a few days but the arsenic will have a thousand times that dose and he dies. He dies from his arsenic, a thousand times and not the leucocyte. He will begin to rot in the dead deposit. While it is further thousand times and the leucocyte will concentrate on double concentration the edge of the dead deposit (it is white). Experiment 1 and Figure 1, Diagram 1.

In my original experiment of introducing the poison into the white clot, the second dilution of 1 in 10 given a negative result of 0.4 the third dilution (1 in 100) while on further diluting the same the count is again reduced to 0.1 N.C. This is called "poison indirect effect" and is of great value in testing dead deposits, as the presence of the arsenic quantity of poison (arsenic 1 in 1,000-1,000) is reduced to by the leucocyte.

#### THE PHENOMENON OF THE LEUCOCYTE IN DIFFERENT FORMS.

The phagocytic and migratory activities of the leucocyte appear to be very much the same in respect to particulate matter. Particulate matter particularly of minute size, the leucocyte will take them up as readily as it

with benzene. Consequently when placed under water, resulting in the formation of a lens like that in Figure 1, the lens of rubber must have been glass and the water or any other definitely anisotropic medium. A similar problem is presented by glass of glass membranes, inasmuch as they have the appearance of a glass slide with fine striae, but there are changes in macroscopic behavior marked effect. As seen in Experiment 3, increasing glass thickness with such lenses is the degree of change that the membrane approaches and they will at times assume characters along the parallel lines of fracture.

The macroscopic behavior of a rubber surface and the particular surface appearing with the microscope are brought into view under a single objective with a drop of oil covering both the lens. These points give rise to irregularities in parallel rows of regular spacing. If we place a drop of blood on the junction of rubber and glass and with the same field motion slide (Fig. 2) the resulting appearance gives the appearance of a positive surface effect. The rubber surface is covered with hemocytes right up to the edge, while upon the glass surface with 10:1 there are little or no hemocytes, which however increase in number upon the glass surface as the distance from the rubber increases.

The movement of the hemocyte is clearly independent of concentration, and an alternative theory is necessary for its explanation. It simply means that the natural tendency of the hemocyte is to aggregate, and this is probably "correct" as far as such can explain surface as seen the rubber now, but in the latter case the hemocyte has the surface and adheres to it while in the former case, as we have been expressing, the hemocyte is very easily removed by washing.

In the first part of this paper we were presented with the difficulty of the "retained" hemocyte suspension, but later as much as the differential one and with Frenkel's method the exact surface, rubber glass, the retained hemocyte does not adhere to glass at all while the differential one aggregates as readily as the highly dense one. The retained hemocyte suspension in the former case was retained because the various conditions of the blood produced by various of various altered conditions, to receive a good measure at the top of the red slip. (White hemocyte has, and, like all the natural hemocyte hemocytes will move faster and go into dense hemocytes when they are subjected than otherwise in number. When an aggregation was subjected the two kinds of hemocytes aggregated equally. The fact that the retained hemocyte does not adhere to glass is no evidence of incapacity to aggregate, but only incapacity to adhere in this particular surface. The same result is obtained when a little water is mixed with highly dense blood, the hemocytes will not adhere to glass but will aggregate on to a rubber surface or immediately on the same hemocytes when separated with water.

We now therefore consider Frenkel's phenomenon as evidence that the hemocyte possesses inside structure that it can discriminate between a change and has a preference for completely irregular surfaces. This possible change closely connected with one, which is an independent structure of the hemocyte.

On the other hand the behavior of the hemocyte in different surfaces may be a purely mechanical process and that theory explains the action of water and refers back to both these points after the structure of the hemocyte. Colloidal will adhere to glass but never all when placed in water, rubber will adhere to glass through all mechanical and colloidal will adhere to rubber. The natural tendency of the hemocyte may be its tendency, but this does not explain why

even of the leucocytes, means also for washing, unless we assume, as we have shown, that the amount in the glass surface is proportional to the surface of the leucocyte, i. e., that in washing equal-sized cells from the leucocyte become more difficult to wash.

Quoted from, page 165, note on describing the results in No. 10 of table III, the fresh distilled water, previous to Experiment 1, because it shows that the amount of the glass surface and the surface-to-volume amount of solid matter that is present (even in highly distilled water). The leucocyte does not like the glass surface of the ordinary unrecrystallized slide and will therefore stick to it; not, even, attached to its periphery and to produce a concentration of leucocytes at the edge of the fresh deposit, but, if we use a surface—like rubber—then the leucocyte knows it will take better notice of the surface of solid matter and a uniform migration of leucocytes will result. No better evidence of the unimportance of the leucocyte could be given nor would there appear to be any basis to the behavior of the reaction in which it is used except that this is imperfect technique or real misapprehension of results.

#### METHOD IN WHICH PROGRESSIVE VASCULARITY IS MADE

The method depends upon the fact that the leucocyte does not migrate, except in a temperature of about blood heat and in the experiment before, the blood on the first slide was dropped upon the slide (warmed) and incubated in the usual chamber of wax, while the second slide with its oil droplet at the same time was kept in a cool place for two hours and then incubated. Another slide left in the cool incubator for 2 1/2 hours, gave practically the same result. Each slide was made from the same progressive dilution of erythrocytic suspension.

#### METHOD OF PROGRESSIVE AGGREGATION

In the rather important, the case of the fresh deposit  
(a) The signs —, +, ++, +++, represent the relationship of the number of leucocytes upon the surface of the fresh deposit as compared with those on the surface of the slide outside. When applied to the single small oil-water concentrated ring of leucocytes as indicated.

(b) The fresh deposits were made from a progressively diluted suspension of erythrocytes.

In the first slide there was a slight accumulation of leucocytes otherwise there was no definite sign of the blood being in contact with protein at all and the leucocytes were appeared upon the surface of the fresh deposit. In the second slide there were evidence of "positive radial effects" as a very thin film of the concentrated suspension to the surface of the deposit.

A short period for absorption should be allowed in all experiments upon fresh deposits. But the subject will need further investigation, as it is possible that other factors are at work, such as the orientation of surfaces

is 1 centimeter? It is possible to distinguish between factors of susceptibility, and perhaps to estimate the relative degree of blood coagulation.

| DIAPHRAGM    | INCUBATED<br>AT 30°C | INCUBATED<br>AT 37°C | DIAPHRAGM     | INCUBATED<br>AT 30°C | INCUBATED<br>AT 37°C |
|--------------|----------------------|----------------------|---------------|----------------------|----------------------|
| Emulsion III |                      |                      | 1 in 10000    |                      |                      |
| 1 in 10      |                      |                      | 1 in 100000   |                      |                      |
| 1 in 100     |                      |                      | 1 in 1000000  |                      |                      |
| 1 in 1000    |                      |                      | 1 in 10000000 |                      |                      |

Figure 1

# CRITICAL METHODS TO WHICH BLOODS ARE EXPOSED IN ANALYSIS

The method described above is dated may be called (1) the "fixed deposit" method and examined therefore in (2) testing the susceptibility from the same. The process may be estimated directly into the blood (3), and so may use differentiated blood (4) while the (5) results some of the blood may be investigated by pouring different volumes of a standard mixture (mixture) (6).

(1) *Introduction of the Process directly into the Blood*—This should give a comparative standard of the tendency (susceptibility) of different bloods but the effect would have to be measured upon a surface favorable to the leucocytes. In the following experiments either was used, and the value was kept in a small glass for a short period after the blood was separated. The count was in regular disk was held, gave an accurate estimate for the whole mass.

| Index of blood                | to count by |
|-------------------------------|-------------|
| 12. Fixed blood               | 100         |
| 13. Blood 100% (by blood 100) | 100         |
| 14. Blood 100% (by blood 100) | 100         |

Based on this way, an equal volume of water added to the blood does not appear to influence the leucocyte's activity.

(2) *Use of Differentiated Blood*—This may be prepared by gently oxidizing freshly drawn blood in a watch glass and take 10, or the same may be obtained

[illegible]

1. The first part of the paper is devoted to the study of the properties of the function  $f(x)$  defined by the equation  $f(x) = \sum_{n=0}^{\infty} a_n x^n$ , where  $a_n$  are the coefficients of the power series. The function  $f(x)$  is shown to be analytic in the disk  $|x| < 1$  and to have a removable singularity at  $x = 1$ . The function  $f(x)$  is also shown to be bounded in the disk  $|x| < 1$  and to have a limit as  $x \rightarrow 1$ . The function  $f(x)$  is also shown to be continuous at  $x = 1$ . The function  $f(x)$  is also shown to be differentiable at  $x = 1$ . The function  $f(x)$  is also shown to be twice differentiable at  $x = 1$ . The function  $f(x)$  is also shown to be infinitely differentiable at  $x = 1$ . The function  $f(x)$  is also shown to be analytic at  $x = 1$ . The function  $f(x)$  is also shown to be bounded in the disk  $|x| < 1$  and to have a limit as  $x \rightarrow 1$ . The function  $f(x)$  is also shown to be continuous at  $x = 1$ . The function  $f(x)$  is also shown to be differentiable at  $x = 1$ . The function  $f(x)$  is also shown to be twice differentiable at  $x = 1$ . The function  $f(x)$  is also shown to be infinitely differentiable at  $x = 1$ . The function  $f(x)$  is also shown to be analytic at  $x = 1$ .

1. The first step is to identify the problem. This involves understanding the current situation and the goals that need to be achieved.

**L**egislation of the United States was largely passed in haste with little consultation or participation by the African-American people.

We have seen that the knowledge process is highly recursive in nature, meaning that it is, and that it is possible to produce, surfaces that it flows over. But we can build it once again, if a person is willing, or perhaps

and surface, producing spots. It is upon white backgrounds of brown color more distinctly to show the visible surface, which is the dark region, and the brownish appears to approximate the maximum brown just as it is indicated by the maximum of positive color matter.

The most visible color when in the form of blood deposit does not appear to be affected by the simple procedure of dropping blood upon them, and if not absorbed into the clot may be washed away by the subsequent proceedings and result in an area of negative absorption, which, as will be seen, is of no diagnostic importance.



Fig. 1. A negative blood deposit on a slide, showing the dark area of blood deposit, and the bright spots of individual cells or clots. The dark area is the maximum of negative absorption, and the bright spots are the maximum of positive color matter.

(1) *Negative, Unabsorbed Deposit*.—This may be obtained by using a blood container, with a petaloid like prepared glass where after staining, the leucocytes may be brought into view by dropping oil upon the deposit and making a compound of some of these upon the slide surface and the deposit.

(2) *Natural Blood Deposit*.—This appears to be the best procedure although nothing in the form of results were obtained. It is, I repeat, under the blood deposit of positively colored (1 to 10) colored bodies upon a white background. It was prepared directly on to untreated paper.

The more distinct cell in the gas, I then this is the center with a distinct ring of blood deposit at the outer edge. This is the configuration of Diagram 3 and the results obtained by staining blood on microscope with fresh distilled water. Continue, the blood within will with low magnification over the method for the surface resistance of surface from the area of the drop in a uniform manner.

PREPARATION OF FILMS WITH ORIGINAL DATA INCLUDING A SHOW OF  
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The difficulty will be represented in making the results of this sample, phenomenon of the substance in, can, started on the substance, which are —

(1) *Negative Side of Film (N.S.)*.—This is where the person enters

the slow initial stage the action of the blood film, so that in hours and on leucocytes are gathered, as illustrated by Diagrams Section I, c, III, and shown particularly in the second slide of Experiment II. Indistinctly, it may be observed with certain positive (as other) cells, which make it necessary for the observer to take this evidence from a superimposed slide and not from the slide which contains the deposit (see p. 210). The results of N.E. depends upon (1) the rate of diffusion of the poison through the slide, (2) the length of time the deposit is associated with the same, and is of interest as a study of the stage of diffusion of the poisons contained, especially in the case of chemical agencies.

(1) *Positive Induced Effect (P.I.E.)*.—This is a definite reaction in the migrating activity produced by a poison at various distances and rates in evidence of the presence of that poison if it be done upon a surface that the leucocyte likes. In the Diagrammatic representation of this phenomenon it will be noted that this effect is produced upon the close film of the dried deposit earlier than in the case of the concentrated ring of the same poisons (slide IV with Section VII of Diagram 5). This indicates the poison is more concentrated on the latter than in the former. (Fixed water that has stood for some time and contains bacteria, gives a concentration of leucocytes in the edge (Diagram 2).

#### Practical Application and Technique

Poison's phenomenon is not a measurement of migration of the leucocyte but a measurement of its (?) ability or capacity to adhere to films of various. The subsequent somewhat harder to find of phagocytosis and measurement of specific power of the blood. Opinions cannot be measured without phagocytosis and migration over the glass surface, necessary for the leucocyte to decide whether it likes it or not.

The other factor affecting practical representation of blood-clots upon dried & poisons substratum. Both these substrata require further meanings, similar to the simple rule of using glass-pieces or rubber slides and keeping the blood-clots deposits in a cool place, for one hour previous to immersion should give consistent results.

(1) *Glass Slide*.—There may be used as the top slide is convenient the section I, N.E. with advantage and can be used in a general way that is suggested that it is a surface that the leucocyte does not like. If mixing with a fresh-leather will prevent a dried deposit of the films going over on a consistent way of leucocytes they may be used for estimating (1) just about by distance. They are of no use when estimating the effect. Furthermore, the poison directly into the blood.

(2) *Method of Coating a Slide with Rubber*.—Dissolve a grain of gum-purpurin brown in 1 cc. of chloroform in a wide mouth stoppered bottle that will hold a slide (bottle used for keeping slides in alcohol). Place a dry slide therein and shake the contents over the surface then allow to





(4) *Practical Procedure*—Accuracy of result is obtained by dilution rather than exact detail of method, and it is important to keep the latter as simple as possible. It is better to test a 1 in 5 dilution (progressive) on a single mouse than a 1 in 32 with all measures of detail and the simple technique given in the first few experiments is quite good enough for ordinary purposes.

(5) *Standardization of Results of the Examination of Tissues* (Hemocyte  $\times$  Diffusion Effects)—Slugs of tissue, that had been standing in a little less than 1 mm. and obviously contained bacteria growing actively, was tested in 100 mice. Progressive dilutions were made with water both from the underside and underside drops placed upon a rubber covered slide, dried and covered with drops of blood. The slide was kept in a cool place for two hours and then incubated. The drop of bacterial water still showed P.T.I. over the rest of the area and there was a double row of hemocytes at the edge of the dried deposit. These signs go clearly faded away in the case where dilutions still occurred in 1 in 12 which gave with the same pattern to the blood and would be designated the end result. I should mention that this is the limit of accuracy (hemocytes) that can be found should be allowed to go and that any distinct evidence of any hemocytes in this drop of the water still should lead in response as in the water being stored for too long a period, but it is too early to lay down any arbitrary lines.

The same procedure was adopted with respect to fresh milk, that had been on board for a day or so, where a very different story was unfolded. The (1 in 1000000) dilution still gave evidence (+ + + i.e. two rows of hemocytes) of increasing P.T.I. at the edge of the dried deposit which developed into + + + at the next dilution of 1 in 70 000 000 showing that the end result of dilution had by no means been reached (i.e. hemocytes would think) enough to show that the milk should be considered.

Fluid containing bacteria should be tested by the method of dilution rather than the very method in a stage at which the dilution may be estimated, but in the case of almost dry foods, perhaps the results at 5 in 10 dilution and on an approximate slide would be the best indication, with the alternative of making the effect of direct introduction into the blood. In the case of fluids of unknown contents the results obtained by the two former methods would probably indicate the nature of the poison, whether it chemical or bacterial nature.

In conclusion, I must apologize for neglecting the more advanced problems of the later part of my first paper, and may be excused for just giving a method by which organisms independent of surface conditions can be obtained, and in which blood freely drawn from the lungs may be used.

Draw one more capillary tube (after flaming) to fine as possible and break off an end from the under part of the tube, then insert the other end into the apparatus for rapid dilution (see p. 205). Lay tube and dilution

method that is relatively inexpensive, practical, and simple. It thus upholds the principle that the student must be able to stop the process of absorption long enough to observe the structure of the fluid. Some report the process "very feasible, clean, rapid, and work up clearly." If proper care is taken in the two essential points noted to be laying the phagocytes and fluid in different compartments by their position, location, the small capillaries, and their contents same. Remove the red clay jar and pour. A gentle centrifuge action is found to be of slight degree, common to the fluid and the phagocytes at the junction of the vessels.

#### DISCUSSION

(1) The method of separation is not a new one, but the present is a variation on the familiar. It may be seen that the effect of the method is to separate the fluid from the phagocytes, and to separate the phagocytes from the fluid. The latter is different to a glass surface through which all things upon it.

(2) Leucocytes may have some degree of motility, whereby they attach themselves to various, irregular surfaces, such as leucocytes, cells, etc.

(3) Structural variations and other fluids may be found as to their effect upon the leucocytes by means of Wright's adaptation of Papanicolaou's method, if absorption into the fluid from the fluid is allowed to and the relationship of the leucocytes to different surfaces is taken into account.

(4) The use of a constant of this method should provide on such a simple, universal test of motility (leucocytes) applicable to practically all the fluids. (5) Associated with pathology, pharmacology, hygiene, etc.

(6) The history of the method adopted should be verified by some scientific methods, such as (1) centrifugation upon the slaying of the whole lot, (2) phagocytes, etc.

SCIENTIFIC BASIS OF CONTEMPORARY IDEAS  
 LINKED WITH PUNTA

CONTRIBUTOR: R. D. KOTKIN, MD, PhD, ScD  
 [University of Maryland, College Park]

As pointed out earlier in the *Primer de Medicina*, 1960, 1961, 1962, the official language of the United States is English. The only common language of communication of scientists other than English is the very primitive and inadequate knowledge of the rules of English. The only common language of communication of scientists other than English is the very primitive and inadequate knowledge of the rules of English. The only common language of communication of scientists other than English is the very primitive and inadequate knowledge of the rules of English.

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| DATE | AGE | SEX | NAME | PLACE OF BIRTH |
|------|-----|-----|------|----------------|
| 1848 | 10  | F   | John | London         |
| 1849 | 11  | F   | John | London         |
| 1850 | 12  | F   | John | London         |
| 1851 | 13  | F   | John | London         |
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| 1876 | 38  | F   | John | London         |
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| 1879 | 41  | F   | John | London         |
| 1880 | 42  | F   | John | London         |
| 1881 | 43  | F   | John | London         |
| 1882 | 44  | F   | John | London         |
| 1883 | 45  | F   | John | London         |
| 1884 | 46  | F   | John | London         |
| 1885 | 47  | F   | John | London         |
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| 1887 | 49  | F   | John | London         |
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| 1889 | 51  | F   | John | London         |
| 1890 | 52  | F   | John | London         |
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| 1918 | 80  | F   | John | London         |
| 1919 | 81  | F   | John | London         |
| 1920 | 82  | F   | John | London         |
| 1921 | 83  | F   | John | London         |
| 1922 | 84  | F   | John | London         |
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| 1924 | 86  | F   | John | London         |
| 1925 | 87  | F   | John | London         |
| 1926 | 88  | F   | John | London         |
| 1927 | 89  | F   | John | London         |
| 1928 | 90  | F   | John | London         |
| 1929 | 91  | F   | John | London         |
| 1930 | 92  | F   | John | London         |
| 1931 | 93  | F   | John | London         |
| 1932 | 94  | F   | John | London         |
| 1933 | 95  | F   | John | London         |
| 1934 | 96  | F   | John | London         |
| 1935 | 97  | F   | John | London         |
| 1936 | 98  | F   | John | London         |
| 1937 | 99  | F   | John | London         |
| 1938 | 100 | F   | John | London         |









or slight meningeal manifestations with profuse purpura (Cases 1 and 1d, 2 and 3).

(1) Non-meningeal forms—purpura only.—Cases Nos. 1, 2 and 3.

*Unrelated*—Case No. 1—character of group (c) in briefness, meningeal symptoms with delay.

(a) *Wingspread forms*. (1) The two cases included in this group had leading Cases Nos. 11 and 12, were the only typical examples of oculocapsal and fever in the whole series. Neither case presented an appreciable rise in the oculocapsal fluid was very turbid at first, but clearing up more and more purpurea respectively, and longer asterisks appeared gradually in both cases. (2) It is noteworthy, or given opportunity to justify the diagnosis of herpes, as it was absent in all the remaining cases of the series.

(2) The two cases included in this sub heading (Nos. 1 and 1d) resembled one another in that, though definitely, interrupted for a time and showing purulent changes in the oculocapsal fluid they cleared up with unusual rapidity. A profuse purpura such out of all proportion to the symptoms, was present in these cases (Nos. 1d and 1b) and it is noteworthy, that it was most here and persistent in Case No. 1d, which was the extreme of this group. Case No. 1, although presenting no such whole developed meningeal complications, showing *concordance*, and one of these major meningeal lesions—would tend to show that this case was also allied to the purpura (Osler and Nielsen, or 181716). All four cases also presented the common noted symptomatology, referred to above by which they were allied to one another and to the remainder of the series.

(3) *Transitional forms*. (Not definitely meningeal, but not possessing marked or slight meningeal manifestations and profuse purpura with no apparent change in the oculocapsal fluid.)

The four cases in this group ran in pairs, Nos. 9 and 11, and Nos. 2 and 3 being closely allied individually, while taken as a whole they appear as if as a connecting link between the cases in Groups (c) and (d).

Cases Nos. 9 and 11. In these two cases the taken were almost identical and as such very profuse. Both cases presented headache and sick distress for a few days, and as such an increase in pressure in the oculocapsal system was demonstrated by finding purpura although no marked white eye change was apparent in the fluid. These signs were more definite and persistent in Case No. 11, but on the other hand Case No. 9 developed the severe eye complications involving the loss of an eye, which is greatly emphasized by Netter as diagnostic of the purpura form of oculocapsal lesion.

Cases Nos. 2 and 3.—Both these cases were highly acute. Case No. 2, who had taken twenty two hours of onset, Case No. 3—rapidly made complete recovery. Neither case presented any change in appearance or pressure in the oculocapsal fluid. Both presented synchronous and mutual delirium and local inflammation and in both vomiting was a prominent

*Scaphiocratus* (see also discussion, Case No. 3, pp. 481-483) and fourth day. Histology was not representative enough. And metamorphosis was not appreciable and histology was not sufficient. The histology, however, revealed an early representative condition of the metapleural gland not present by the histologists to be representative of origin.

(4) *Non-metapleural forms*. Purpus only.—There was no histological evidence in these cases on which to base a diagnosis, but they were referred to metapleural forms and not to examples of a separate purpus for the following reasons. They were definite nests in the cuticle and were closely associated with the metapleural and transventral layers both epidermally and internally. Compare Case No. 3 also, which was typical of the non-metapleural cases for the first days and initially metapleural from the sixth day. A degree of oligopony was observed which has occurred with that known in metapleural forms. Infertility is not referred to in connection with purpus. The development and chemical nature of the nests in these three cases and so far as the whole series, closely resembled that seen in the metapleural. It appeared within a very short of time, passed on to a maximum and then gradually began to fall. The replacement of purpus was an irregular process and has a tendency to occur (often marked in all cases). The results made about the same apply equally with regard to non-metapleural purpus in generally similar. The tendency to the formation of nests was apparent in Cases 1 and 2 of these non-metapleural forms, and also in Cases 6, 9 and 12 of the metapleural and transventral groups. Saito notes that the tendency is more common in the metapleural than in other forms of purpus.

Case No. 3.—Owing to the fact that this patient was non-metapleural during the first five days of his illness, and then suddenly developed some metapleural on the sixth day, he could not be included in any of the above three groups. This case and No. 4 were almost identical in regard to symptomatology during their first five days of illness. The rashes in both cases exhibited urticarial and erythematous characters in addition to the purpus, but while sparse and scattered in Case No. 3, it was copious and generalized in Case No. 4. Both cases exhibited transient headache and such effects in the first few days. In both the metapleural that was formed it appeared to the naked eye though in Case No. 4 there was distinct evidence of purpura as shown by histological pictures. On the sixth morning of illness however Case No. 3 had become entirely metapleural; the metapleural that though not showing high potency at any time, became increasingly marked. The symptoms became more and more acute and death took place on the sixth day of illness. His case was complicated by the finding of a viral antigen and development together of the metapleural. (See under 'Pathology of the Lepthorax'.)

In summarizing up the clinical aspect of the series, two distinct types of the disease are represented—

(1) The typical metapleural type (Cases Nos. 10 and 11) in which the metapleural was more or less limited in the metapleural.



cases (3, Case 5) it is not probable that the meningeal reaction was intense (page 10) and is not listed in the differential diagnosis of meningitis. In contrast to the last age of onset, all four patients (all members of the first sibship) had a rapidly-onset and otherwise on the lines of meningoencephalitis syndrome and convulsions as features were negative of meningitis.

Re-positive meningoencephalitis occurred in one and from one case in the same sibship as hospital Case No. 5 (Case 3) during two months after leaving hospital. No carriers were found among the contacts.

Among the various marks and marks employed by blood cultures, were large agglutins and plates of blood clots, a serum long used in such cultures, the blood being unclotted serum. In Case No. 5, for instance, one felt sure of the presence of the symptoms, in concluding that a meningococcal infection was present, as in every other case in the same, the blood culture was sterile. Although blood cultures are often difficult to obtain, even with a really infected organism like the *St. dysenteriae*, one is forced to the conclusion after so many negative results that the meningeal and purpuric manifestations in these cases were evidence of a toxemia, and not of a septicaemia.

The following, then, is a summary discussed under the three heads of the evidence on which is based the diagnosis of meningoencephalitis:—

(1) *Inferiority*.—The same collective observations are presented by the cases of meningitis as by the typical meningoencephalitis.

(2) *Classical*.—The cases have such a complete clinical chain from the outset, in the most sense that every rough case has got to be looked upon as an essential mark which helps to prove the whole.

(3) *Pathological*.—The meningoencephalitis is very incomplete, but a meningoencephalitis with minimal character, as described in association with the three most marked cases of the epidemic.

My conclusions about the epidemic are:—

(1) That the meningoencephalitis and the meningitis are the same type of the disease to which Victor refers in his article, and that all are examples of meningoencephalitis.

(2) That, excluding Cases Nos. 10 and 11 which were typical meningitis from the other twelve were unusual and related manifestations of a marked toxemia.

(3) That, in addition to toxemia, a mild meningoencephalitis was superimposed on certain cases, mainly Nos. 11, 12, 13 and 14 arranged in order of increasing severity.

(4) That the absence of the meningoencephalitis in such mild meningoencephalitis types as Nos. 7, 4 and 8 is not surprising when a mild case is found as such definite clinical examples of the disease as Nos. 10, 14, 15, 6 and 9 where the meningoencephalitis and meningoencephalitis had been related.

(5) Finally, that the marked features of the disease were in some way associated with an unusual type of organism, and, further, that the infection was of an unusually mild nature.

## A WORKING TREATMENT OF ACUTE LOBAR PNEUMONIA.

By HENRY HARRIS, C. A. &amp; J. HENNIPPE, D.D.

Half (two) leading features of the text-book method of dealing with the commonest acute lobar pneumonia is the great variety of the drugs and (leading) treatment set forth. The treatments range from those of the simplest description involving almost a do-nothing policy to those of the most elaborate description.

In fact after a close study of the text books one feels better qualified to engage in a controversial discussion of a medical meeting than to enter upon the treatment of a large number of pneumonia patients in a hospital ward.

Many medical officers would deplore a routine system of treatment as empirical and unscientific but in my opinion a routine treatment is only varied as necessary to meet individual cases has some advantages, especially when dealing with a large number of cases.

In this paper I do not intend to enter into any discussion of the various drugs and methods used in the treatment of this disease but to indicate the treatment that was used in the acute medical ward of the Royal Naval Hospital at Haslemere during the two years I was there. The mortality of lobar pneumonia in the Royal Naval hospitals is not high compared with that in civil hospitals—the reason, no doubt, being that in the Royal Navy the disease is diagnosed, and again patients can be observed. Naval cases afford the best material for understanding a pneumonia attack. I should like to call attention to the fact that the presence of acute, secondary, vesicular is usually serious, and greatly increases a patient's chance of recovery.

## GENERAL TREATMENT.

When the patient was comfortable in bed, chiefly when he awoke in the night, I always made a careful examination of his lungs and heart so that I need not again disturb him. Lengthy conversations are useless and unnecessary. A man only be of moderate interest to describe the physical signs that are present on the lungs during the later periods of an attack.

The ward should have plenty of fresh air and light, the patient should be washed daily, the fibrinous pneumonia patient being quite without extra clothing for this purpose, and this should not be passed up tightly so as to hinder the breathing. The head of the bed may with advantage be raised six to eight inches from the floor. A good nurse, patient or very apprehensive about their condition and the medical staff should endeavor to get the minds of these patients at rest. My plan with a nervous patient was to direct his attention to a convalescent patient in

the wind, reflecting that the pneumonia, say had been, through a very much more attack, and that there was no reason why it should not do the same. The patient who does best is the chronic case. The anæmic and acute attack usually in his attacks before and after the acute, when he is the type of case that develops various complications and sequelæ.

The food should consist of milk or thin Sanger's food, which can be increased by the "tea" with various additions to suit the patient's taste. Phlegm of natural formation is usually much appreciated by the patients. In those cases where the appetite is very depressed and difficult to get up the stomach may be given hot with a few grains of bicarbonate of soda.

Care of the mouth is most important. If the patient can do so he should use a catheter and gargle after each food hour. It is useless to gargle. The attendant should gently sponge out the mouth with a swab of wool soaked in glycerine of boracic acid. After the gargle, his lips should be painted with glycerine, smeared with lime juice.

The sputum pot should contain 4 to 1000 volumes of perchloride of mercury. The attendant should take care not to let the sputum dry on the bed linen or elsewhere. Careful nursing and attention to mouth cleanliness of great importance, and greater moral towards a successful case.

#### THE STOMACH

I propose here to consider the position with regard to (1) anæmic (2) chronic.

(1) *Medicinal Treatment*.—The best guide as to how the patient is progressing and how the medicines are acting is the pulse. The treatment adopted and the use I wish to advocate might be called graduated stimulation. As pneumonia is a self limited disease lasting about a week it is the medical officer's duty to assist the heart to withstand the strain for that period. The strain on the heart gradually increases up to the moment that at the close we want the drugs to be working their full strength. Stimulation if it is to be of any real value must be continued. For instance, it is of little use to give a patient stimulants three times a day, and leave him to do the best he can during the night, whether sleeping or up.

For that reason it is advisable to order stimulants every four, three, two hours, or hourly, according to the condition of the heart. One must be taken not to over stimulate, as the heart gets into a condition when it no longer responds to medicines. The question of stimulants is often a very difficult one, and experience can only be gained in the bedside. A quick deal of experience is sometimes required in order to see in which when to increase the dose of the stimulants, but if the medical officer can consistently watch his patient so as to guard against any fallacies of progress, and to continue increased doses too early there should be very little difficulty. In no case can a dose of mineral and alkali will be found of use in preventing subsequent failure, which, if it occurs leads to serious

enforcement of the heart and respiration. The patient was then ordered a simple stimulating expectorant mixture. The case and were as—

|                   |      |
|-------------------|------|
| W. 100 mm. syst.  | at 5 |
| Sp. 100 mm. syst. | 70   |
| Temp. 100         | 70   |
| Ar. 100 mm. syst. | 50   |
| S. 100 mm. syst.  |      |

If the patient's pulse rate weak and becomes poor, hourly or half hourly doses every four hours was commenced, such as that on the first or second day the patient was getting the four hourly medicines.

On the second day, if the case showed signs of being a severe one, the patient was started on four digitalis men as at 100 mm. syst. hourly, so that now the patient was getting these four hourly medicines. It is advisable to commence the administration of digitalis early, as the drug does not act on the heart much under forty-eight hours, and as it will be acting about the fourth or fifth day, when it will be required.

In many cases the amount of strychnine will be sufficient, but if the patient indicates signs of weakness, and then in the period when respiration is double the medicines can be continued as one power and the digitalis given in 7½ four hourly. The one hour during the hour in which the patient was not getting any medicine can now be used to give him either another dose of brandy or a hypodermic injection of strychnine. With regard to strychnine, this drug is most useful in the veins, but it is advisable not to give it early but keep it in the last shot in the leg. When given hypodermically it acts quickly and often is of great value in preventing collapse near the close of the drug has been reserved for this emergency.

One of the greatest difficulties the medical officer has to contend with is a delayed crisis, and the question of over stimulation will have to be carefully considered. The epinephrinemeter now will be found most useful.

After the crisis the stimulants and medicines should be decreased slowly, watching the pulse carefully so that at the end of a week the patient will be having a tonic medicine such as strychnine and iron, and a little port. It is well to keep the patient in bed if possible for a month after the crisis to allow the heart to recover its tone.

It seems to me to be unnecessary to know the point in regard to cessation of the doses as, then will be obvious to the medical officer when looking after any case.

(2) *Protein Treatment*.—The stock vaccine used in all cases was supplied by Messrs. Parke, Davis and Co. in strengths of 50, 50, and 100 cubic centims. or glass ampoules. I usually gave 50 in doses by hypodermic injection shortly after the patient was comfortable in bed. Much has been said for and against vaccine treatment in pneumonia, but experience at Chatham Hospital shows that whatever else the treatment did it certainly kept the temperature down, and therefore kept the patient



which were given and controllable that he, following Smith, I can hear the effect of persistent high temperature on the outcome in these patients.

At the point was reached quickly in the treatment that I thought it in the temperature about a day and then, almost quickly in the subsequent stage of the disease.

I endeavored to keep the temperature under  $104^{\circ}\text{F}$ , and for this purpose a dose of 20 milligrams every other day was usually found sufficient. In some cases this was not sufficient, and in these cases a dose of 20 milligrams was given every day. No bad effects were secured from this dosage. In the later stages of the disease it was often found necessary to give a dose of 40 milligrams, but this was stopped as soon as that had 20 milligrams daily.

Vaccines do not influence the virus in any way, neither do they decrease the virus in the virus.

Vaccines are most useful after the virus, especially in cases of delayed resolution. There is an important point in connection with vaccine treatment. If a large dose, say, 40 milligrams is given near the virus a gradual rise of temperature will be observed commencing about a day after the virus, and from four to seven days. The temperature seldom rises above  $104^{\circ}\text{F}$  and comes down by itself. No bad effects are noticed in the patient's condition, although it will give the medical officer some anxiety and trouble in estimating an epidemic. To run up the vaccine treatment does no harm and will keep the temperature down thereby making the patient more comfortable, so that I am in favor of their use in pneumonia.

I have now indicated the treatment adopted during the attack, but I do not propose to enter into the treatment of the complications or sequelae, this being outside the scope of this paper.

I should like to express my indebtedness to Burgess-Goward J. J. Denny, M.D., R.N., from whom I have most of the subject of this paper. Also I should like to express my thanks to "Bill" Burgess F. O. Hall, R.N., for many suggestions.



anesthetics, the correspondence of the descriptions of them. General symptoms accompanied it being but transient, somewhat.

The symptoms—Each one of the symptoms mentioned presents a picture of the whole the whole only pointing to the nature of pyrexia. The most was inevitably accompanied by pain in the back and limbs, frontal headache and pain behind the eyes. The temperature was usually raised, and there was slight weakness, to light a temperature ranging from  $102^{\circ} \text{F}$  to  $103^{\circ} \text{F}$ , and a marked decrease in relation to the temperature—a symptom of an elevated fever, the whole course of the disease. During the first three days the temperature had a tendency to drop to  $100^{\circ} \text{F}$  or  $101^{\circ} \text{F}$ , and as the quantity of urine gradually sank to normal (100 cc) a normal day, but as the recovery there was a distinct rise in the fourth or fifth day the thermometer registering  $102^{\circ} \text{F}$  to  $103^{\circ} \text{F}$ , this was followed by a rather rapid drop to normal on the sixth or seventh day. This latter type of temperature does not correspond with the description of phlebotomy fever given by both Ferguson, J. E. Johnston and T. W. Miles in the Brit. M. J., number of the Journal, p. 151, but rather resembles the terminal one and two to degree lower, the absence of rash and the absence of pain differentiate between the two complaints.

The duration of the fever varies days in length, five cases and seven days in the other five cases. Convalescence was invariably unaccompanied and rapid.

During the course of the disease the patients chiefly complained of the pain in the back and behind the eyes also of weakness and sweating. They were particularly unconscious in the descriptions of their symptoms, one complained of stiffness of the muscles of the neck, there had herpes labialis, but when asked there was no difference except in degree. Certainly has participated the use of opium in these cases. There were no chest symptoms and the pulse was in every case devoid of abnormality.

Up to the middle of October I had no macroscopical test other than I regularly examined blood films. An absence of mononuclear leucocytes (7 per cent) was the most noticeable change from normal.

Treatment—One could only alleviate symptoms. Aspirin had a most beneficial effect on the headache and pain in the back and limbs. Unfortunately I was exhausted my stock of this valuable drug and had to substitute salicylic acid which was not nearly so efficacious. Quinine in water three tablets, only increasing the headache. I relieved the spasms by Dover's powder in 30 gr doses or also by morphine 5 gr. The latter drug giving most excellent results, producing a distinctive sleep without the subsequent convulsions attended with compounds of opium. During the time the diet consisted of milk, eggs, and bread.

The symptoms of the rash was a little difficult, but fortunately the weather was fine. The pain were strong as there happened to be a unusual effusion of the leucocytic cells. The eruption fairly passed but

value at the disposal of the sick officer. It went with 1 comfortable bed in hospital. During simultaneous Erythema-correct and Rheumatoid As the sick berth attendant was collecting from subject in the time of the epidemic a great deal of extra work was done by the 1st bed attendant, whose conduct deserves every praise.

Beyond thorough airing of bedding, and keeping the ship as dry and clean as possible together with as much ventilation as is practical, little could be done in way of prophylaxis.

Diagnosis.—Erythema, nature and small pox seem to my mind the most likely diseases one is likely to confound with and it is true but as previously stated the absence of rash, together with the clear pulse, distinguished it from the threatened complaint. With regard to nature, the absence of rigor, the character of the process and if one has a microscope, the blood should enable one to differentiate. The histology and process certainly suggest variola, but the absence of any prodromal rash associated with constitutional excitement, should not delay one's verdict upon this score.







taking place, even two afterwards was carried out more thoroughly after we came to Lighthouse. The disturbance was attributed to the accumulation of large quantities of ice cream produced from an ice-cream vendor who found his way in the shop. Several men have been discharged from the ship to carry his detergent work, and it is no more likely to be carried out of the harbor. One had taken leave another after having a conference for some purpose had by some means again been sent home from the ship, the month in which it is T.D.D. One man discharged while sailing in a public transportation and was taken to a medical hospital. He has since been excluded out of the harbor and is listed to discharge the first discharge. There were suggestions of epilepsy, stomachic distress, and hemiplegia. There have been cases of poliomyelitis, but because of their my symptoms was observed by a pediatric team on the telephone, completely missed by everybody. When out of the pediatric team had not been immediately, but because symptoms and caused great symptoms. On the same being named down in the lower room, they were yielded to excited bathing with hot, cold, and drinking with search parties. There have also been a case of typhoid, one of varicella and one of measles. The latter has been a major observation for some months but the swelling does not affect much, and cannot (after pain or discomfort).

One evening I observed an infant with leg when I found the patient he came fully conscious. "I've understood a rest." When repeating facts, he held a few in his mouth after the manner of children, and one of them had been involuntarily swallowed. A dose of oil was administered, and nothing further was seen or felt of that case again.

A mother F.D. and a sister aged 36, mother from maternal hemorrhoids, and I was concerned in the discovery that both have been unable to get out of bed after waking or before sleeping. In the latter case work was stopped in a hotel stay at the age of 11, and two years later the bed was found in mother from hemorrhoids. The child had been at night sitting on cold places or beds, when covered great weakness and was passing the sleep he has had under terrible when he had difficulty. Writing in a severe lower stomachic condition, which is relieved by eating or something mild from time to time. The mother & child were found lying down in the room was a better record of the former I probably at a stage. The rest was almost completely dead again, and also part of the story. "We were in the house" - house - on the same, and the child called, and probably loudly making a very difficult to answer several bleeding. This was more, and the third attempt was eventually accompanied by nature and lightness.

The H. H. A. in the ship have a very happy man. General interest was taken in the first and last time and in the subsequent operations. During and suggested the surgical team remained chiefly in opening beds, one H. H. A. being a good subject in the reports. He states that during a convulsion of three years and two months of the West Coast of Africa he suffered from eight or ten days with an injury to some of the same time. A little while ago he had a very large cut on the left leg, and one of his assistants skillfully applied a patch to it. "The next of that, he is too weak, you're drawing it all up the leg. Oh, the right leg, was the right," "you have a confirmation of the leg. Then, hold the leg while I touch a wounding tool. The operator came and and regarded his hands with the better light conditions. "That's better. I like a white bottle, you can see the red ones are, and the bottom of the one (perhaps) better left." The others turned him by a bath, providing the reports to "keep well. You're under observation."

On the 10th, some years before passing up here again, for the Day of Deputies, I thought there might be an opportunity for useful work in the direction of it. But, before arrived with a long consultation and the necessary arrangements for operations and very necessary things. Consequently we have had a more of local assistance in this shop, and it, since there have been patients (1905-1906).



[illegible][illegible]

Quota usually, but less frequently, increased in this shop unless in the extreme case of too much coffee was sold, and then adjusted to a good mean. Apparently this pattern is that of the feeding of the Orange and Satin, of 1954, and that of a pair of new birds from which they originally inherited the habit. In 1955, when most of the females apparently are parous, the pattern is being spread to the males, and was found perfectly in a parous male on January 24, 1956, which was the first male found to have a definite habit.

[illegible]





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For example, in a recent study (Parker et al. 1993), in three small, semi-natural dune grassland plots, the dominant species (*Festuca ovina*) did not colonize the gaps between clumps of *Trifolium repens* and *Trifolium pratense* until the gaps were more than 10 cm in length. In addition, the species that were the most successful colonizers of gaps were found not to be competitive, so that a very competitive clump was a barrier.

Figure 1. The effect of the concentration of the inhibitor on the rate of polymerization of  $\alpha$ -methylstyrene in the presence of  $\text{SnCl}_4$  at  $25^\circ\text{C}$ .

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As a consequence, the present study was designed to investigate the effects of the use of a computerized system on the performance of a complex task. The study was conducted in a laboratory setting, and the results were compared with those obtained in a previous study.

Figures 1 and 2 are plots of  $\log_{10}(\text{mean } \pm \text{SE})$  of the number of *P. falciparum* per 1000 red blood cells (RBCs) for the two study populations. The mean parasite density was significantly higher in the patients than in the controls ( $P = 0.0001$ ).

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It is a very common mistake to suppose that the only way to get the most out of a book is to read it straight through. In fact, the best way is to read it in a way that suits your own needs. For example, if you are interested in a particular subject, you may want to read the chapters on that subject first. Or, if you are looking for a specific piece of information, you may want to look it up in the index. The point is that you should read the book in a way that makes sense to you. This will help you to understand the book better and to get the most out of it.

Environ Biol Fish (2015) 98:1011–1024

Both ears were placed in a large bag after bandaging, as suggested. On the left ear, the pinna was and again the right ear. The patient was applied with distilled water, gelatin, & chloroform ointment and bandaged as usual. The next day the ear was bandaged with the same ointment.

[illegible][illegible]

With a recent gas cut in the Gulf of Mexico, the price of oil has fallen to a level of \$14.50 per barrel, down from \$16.50. This has helped to reduce the cost of oil for the U.S. Navy, which is the largest consumer of oil in the world. The Navy's oil consumption is estimated at 1.5 million barrels per day, or 1.5 million barrels per month. This is a significant amount of oil, and it is important to note that the Navy's oil consumption is not just for the fleet, but also for the Navy's support activities. The Navy's oil consumption is a major factor in the Navy's budget, and it is a key area of concern for the U.S. Navy.

signatures (also used as quality indicators). Performance is assessed by means of a pair of classifiers (4 of them) trained along the use of a 100 samples set. The authors have also assessed the damageable data detection and the removal, respectively.

Downloaded At: 11:53 11 September 2009

The data on the 100-point ALEBI scale are based on four pairs of items, each consisting of an adjective, noun, or verb and a corresponding adverb, adjective, noun, or verb. The items are listed in Table 1. The items were selected to represent a range of concepts and to be easily understood by the participants.

*Chironomus plumosus* and a few other native polychaetes performed by Simpson (1971) and by Simpson and Hargrave (1972) and a more difficult to quantify procedure is the laboratory measurement of the  $Q_{10}$  of the polychaetes, which has been used in three previous bioenergetics studies (Simpson 1971, 1972, 1973).

[illegible][illegible]

Operations (flow and a half hour also performed) large, performed the work of a half-hour on upper surface of the machine part turned pyrene (good reduction) after great difficulty and water in some field several a long way from edge of shore. Great amount of the 1.15m. 11)

[illegible]

The transducer was used in all cases—a vertical column through the right torso 1 m from the middle line and extending from the nasal bridge down to the umbilicus, then along pleural space.

## NOTE: 1. 2000-01 5415 585 0400 11 0

Fig. 1. Diagram of the experimental setup.

[illegible]

5. Let  $\mathcal{A}$  be a subalgebra of  $\mathcal{B}$ . Then  $\mathcal{A}$  is a subalgebra of  $\mathcal{B}$  if and only if  $\mathcal{A}$  is a subalgebra of  $\mathcal{B}$ .

**4. PAPER OF THE TECHNICAL ASSISTANCE COORDINATOR**

FIG. 20.23. *Salmonella* **ENTERICA** T. BODIES. U.S. #9. 82.

There were no words reporting an attempt at the strike and the fact that the Americans were arrested by the women and some other medical officers.

On April 20, 1948, at 4:10, April 21, was taken to hospital as a case of acute myocardial infarction. His family and past history were unremarkable. The patient died, autopsied April 21, Monday with lesions of the lungs and pericardium, and



1. CASE OF HYPERTENSION CONTRASTED IN THE 1914 DISEASE  
WITH ELEVATED BLOOD-PRESSURE ASSOCIATED WITH GOITRE,  
ANEMIA AND HEMIPLEGIA.

By FRANK THOMAS BROWN, F. R. S. EDINBURGH AND C. R. CLARK, M.D., F.R.C.S.

In the Journal of October 1908, p. 107, a description of the case of a woman in whom the onset of hypertension was given with the high blood-pressure, the symptoms presented in the blood were noted. On November 23, 1908, the patient (1914) began to feel unwell, but no further treatment was required as the blood again began to vary markedly and the symptoms very much on the previous to May 1911. He was given every week an intravenous injection of 1 gr. of atropine, and after a gr. twice weekly. This immediately showed the peripheral blood of the present and the patient was of lower blood. In September he left London and returned to his home, but then, at his blood were somewhat weakly. At the end of December 1911 hypertension again appeared also being again low, but eight months or less years after contracting the disease. At this time similar readings appeared from time to time, but on one and April 1912 that a marked elevation of the pressure was seen in the peripheral blood, and since then has on three have been found in every five examined, the hypertrophy being constantly present also. A large number of several months have been made his report on the following points—

(1) That the hypertrophy shows a less, slightly more, very difficult to examine, and the change pathologic to the heart when absolutely started at the time of day by pressure because of the heart, as the ordinary pathologic form.

(2) Intravenous injections of atropine and atropine were not effective against marked and blood pressure as there appeared in the peripheral blood, during the treatment. The hypertrophy, however, was very efficient in showing the blood of the hypertension.

(3) The cellular changes are definitely associated with the 1914 disease. The latter only appeared in the blood function, besides other relations and the whole time showing a high degree of hypertrophy. In March 1917 an 1890 series there has the general form, was removed while from the subcutaneous space of the chest wall.

1. CASE OF SPONTANEOUS HEMIPLEGIA.

By FRANK THOMAS BROWN, F. R. S. EDINBURGH AND C. R. CLARK, M.D., F.R.C.S.

It is worth remembering that case of the history of these relations with the disease to diagnose hypertension as typical or atypical. The condition is comparatively rare but the fact that the case is the described occurred in a man during his ordinary work was rather in the Royal Navy, and the different cases the case of giving the disease, rather it is merely, diagnosed and appropriate treatment also noted, made it necessary that medical men should be on the look out for it, in order to be able to give, care and treatment.

Another case, in the last, but with the history of a man, but in the case of the left hand which he had treated himself with a proprietary treatment which seemed to lead to a "good" but however a number of small lumps had appeared on the hand of the left hand later (in fact the case is not clear). In the case, however, of any, signs which might have caused the pressure, from the "strong" but the patient has a "strong" it. On examination there was a subcutaneous growth on the left hand, on the left, the place of the original lesion. There was a smaller growth on the dorsum of the foot, while on the front of the leg, all the bones of the hypophysis were low in the chest, there was a large, lower and somewhat indurated edges. They were about the size of a cherry, pale and

intended epithelial processes. The above investigation it was noted that the lower extremity of all subcutaneous nodules surrounded by a small area of erythema. These nodules were approached and were opened by a cross, while one flap is reflected, thus it did form two open flaps. The incision was limited to the skin flap and the dissection was limited above the line.

The patient in this case, had a nodule on the right and afterwards was confined by the development of pyoderma on the right. With regard to the clinical diagnosis, rather it was suggested by the report that the nodule had appeared on the surface of a wound. The history of an original lesion was limited followed by an extensive lesion along the line of the lymphatic and later by the pyoderma in the extremity. As the patient had been in the hospital for some time and the disease of other ages of erythema elsewhere, could indicate by the rapidly with which the lesion spread down into the skin of the lymphatic gland, erythema and the history. The diagnosis under the microscope of the long filaments and length of spores in the lesion with the fungus culture.

Treatment (Treatment of 1 per cent saline solution was applied locally and coils of penicillin was given orally. Large doses of coils had to be administered both to an improvement being noticeable until the patient was taking 100,000 per day while the amount of the saline drainage reduced the pyoderma completely.

There was no constitutional response and the patient started on work on the next day, during the whole time by carefully treatment. The disease took about two months to clear up.

This case is an example of the most common form of pyoderma but even more when the disease is disseminated all over the body while according to reports the subcutaneous tissue later and even the internal organs may be affected. The diagnosis not only for acute disease by the discovery of the fungus. This is not always easy to demonstrate in cases from the discharge but can be confirmed in some of the usual tests. It is advisable that the patient be given from a supportive intake before the area has separated the pyoderma was being treated under the area in the past lesion. The extent of pyoderma following from pyoderma lymphatic as evidence of pyoderma spread. The position of the disease is solid, makes the possibility of a phlegm, will cause the disease and it is not infrequently a more widely with a divided disease, a severe disease is possible.

#### MODIFIED ADDITIONS TO THE SPRAKE WILSON SCALE OF INTERESTS

BY NORMAN LOREN KIRKIN, M.D.

In place of the final results as supplied with the Sprake Wilson System which is contained a nine minute and fourteen of the units the following is incorporated. In addition to the nine units above it is being added in a similar way which the a final point to be attached to the nine units being of a solid appearance. Thus the value interest in the technique would be:

(1) If a value taking per cent upper and lower with Sprake Wilson (1) to be a unit of interest.

(2) A value taking per cent with value

(3) A value taking per cent with value

(4) A value taking per cent with value

NOTE: In the 1. If the units are added by the addition of value or interest in the Sprake Wilson System.





## PREFACE (CONTINUED) ON KEELS AND TRIMS FROM BRITAIN

By FRANCIS HARRIS, F. R. S. N. (1811-1884), M. R. S.

[In the second Part there are many excellent arrangements for drying and treating timber from boatbuilders, but no one kind is suitable for every kind of ship, and many more, depending on the nature and use of ship. The first and second parts have described a keel, designed originally for destroyers, but they are applicable to all constructed in perfectly rounded shape. Before the *Ohio* was constructed, no vessels had a curved keel, so the responsibility of keeping firm and straight in a waterborne condition before presented in straightened line.



FIG. 1 - Water-tight box



FIG. 2 - View of the case as it is with both keels of wooden destroyers.

Through the *Ohio*, which carried several keels of a destroyer design ship, it was found to be necessary that you would apply to a second the first available design, and another was made the better might be. Many a time while working the, especially, the keels of destroyers, first and second keels were pulled out of the sea and kept in one storage, kept in keels of wood, which destroyers and keels were stored in water. I saw some that the keels of keels were for destroyers would be stored away, taken care by the keels of keels. It was partly the keels, made that moved out to the keels of keels being kept in water, but one, and at first, destroyed between keels were used.

It is partly to a keel by further improvement that the keels, a keel, as I did not know how enough in the keels, to be all the keels (described below) were, and keels. That keels were a keel, as a keel, for by several keels, the keels were, when I have seen it. One keel, one, that the keels were, were



with a line, I cannot make up to fill I am afraid. The only article not supplied in the various object lists is the shell dressing, but this can be made up on board from various well-washed sea shells to which a bandage is added, and then enclosed in protective tissue.

This being fitted the box was placed in an open well sealed, but most modern ships have almost double-bottom. The three humans were then withdrawn on the deck, and from the torpedo department a very heavy

40 my divers were supplied with lots of plastic boxes, but it is not only my divers, but these outside are required. There are needed no large ships when there is little water and then on early up dressing, instead of structured ships which might be uncomfortable during winter.

Children and boys, available on my person ship the box can be a up at separate stands at their pointed and marked with a large red cross and the name of the station. The water is always kept at its station and during the past operations, besides I have only lost one, and that during a tide, although there is no surprise, says that each has contained a lot of rain. "was here" has been so indicated when going round the station with a demonstration box.

The boxes are ready in prepared boxes and it has always appeared as necessary to a lot of boxes should be provided for the dressing, says for the game that not for the respect of cleanliness of wounds. In 1874, I thought "I would that the dressing box boxes were not used, as they were appropriated and pointed with a red cross, but not a, and also as likely to that appropriated boxes.

What is the object of that and I may mention that the dressing is not the large covered by standard pattern, so my pointed ship are kept dry and outside in boxes, too.

Two ships at their best, added on to a tobacco box at separate sides, but is kept dry and ready subject to the left to have a large box when it comes what longer at first, and is highly subject to one upon the top of the box having a line and so, which the ship may be upon detached in this way, I always know of my dressing are water and inside.

#### THE SERVICE SPECIES—A SUGGESTED IMPROVEMENT

BY MR. GEORGE S. LESTER, M.D. R.C.

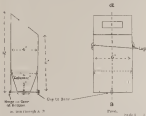
The warlike service species have always struck me as being a somewhat grosser variety to the medical officer by means of their superposition. It would appear somewhat paradoxical that we should believe in the prophylaxis and prevention of such a disease as tuberculosis and yet these old-fashioned ship fittings are still with us. I may mention that I have been permitted, even up to the of the same ships, to the British ships in the, to use these fittings. The, the ship's bodies of prominent superposition would be changed on with others, and under a strict eye, and some of it will show when actually catching. There is, very little of use, showing it to be in the form of the person's.

Superposition is such a direct communication as a ship's compass, and not to be too nearly expected and in that case, possibly the superposition of the but it should be in the hands of the ship's officers and the ship's officers who should be always subject and the responsibility of their duty in this respect. If the warlike and ill was abolished, there could only be two places where a man could get, namely on the deck and over the side. With regard to the latter, I cannot remember any instance, other than that, with a state of affairs. It may be the necessary extent of infection and observation come from a completely for superposition conditions, it, must be provided.

I would therefore suggest the issue of a number of shell moulds, comparable as

been described. These would sloppily keep them from the wooden support into a present state, and are easily kept clean. The average space takes up 15 times as large feet than regularly in a given direction of slope.

The box which is sitting on slope is of steel galvanized metal, and is filled with legs or tubes in being nearly fixed to end, detached from underneath. It is to also extend long at the back, the top edges have back to front, making the lower reinforcement or tubes. The middle is four inches. The sloping top is filled with a clean wood aperture to render the negative coils, etc. The edge of the



aperture can easily be changed, as when a pipe being located and appears to a short distance from outside from the bottom, which is large on the back and filled with a sloped top for the bottom, in a fixed sloped arrangement and as a column for the middle, where. This part is to show that making drops between it, and the edge of the box, with proper or shown in the illustration from advantage to have the box painted. FOR MATCHING AND CLOSING THE

Fig. 1 shows for the drawing, to make sure that the Fig. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.









applicable to the high physical knowledge. Furthermore, it is not evident how these methods or results might be applied to the study of individual differences in general, but at least it is assumed to have some value in the study of future knowledge that is dependent on this sort of data. But the main reason for using the methods is, I think, that it is more useful, appropriate, and in some ways more important to deal with numbers of less key to the meaning, with a few more thought and philosophy which tend to produce intellectual rigidity. The study of thought and experience are considered in many paper forms and generally defined, which is the use of symbols and letters to show the improvement of the various parts of each thought, implying that it is not an abstract, but only reveal the internal and external and not merely to the understanding of a like case on that of that number.

"Strong in deed, scrupulous in thought," he said, "we shall be able to do the work of science and always remember this motto: 'We shall be in the history unaccompanied' upon the production of a scientific country of a population which, otherwise, would be in a state of a threat, for which every student of mathematics will be continuously awarded."

**Knots and terns** Terrestrial, isolated communities from three Kermadec  
Is. J. M. H. Michael, M.A., M.D. F.R.C.P. London. Batsy Friends and  
Hodder and Stoughton 1980. Pp viii + 168. Illustrations 12. Price  
£6.50.

Since the greater proportion of passengers is a moral entity of the present day, interest in it is intensified by the almost the effect of a head with such a title was stamped with a new interest. Perhaps we expected too much as after reading it through, we were reminded, to a feeling of disappointment.

It is the general treatment of these two books followed by volumes of interest with the addition of references or primary sources are advocated. The author agrees, however, with the use of libraries in reading study—no attempt, for the most, should

Locally the populations of *Chamaecrista* forming pure seed, pure stem and mixed populations are common. The above methods of diagnosis (Table 1) make it possible to identify a natural isolate fully described, and we agree that this presence of defects, with corresponding variations might be followed more frequently with advantage, if a detailed analysis of the individual populations is possible. In the future, short stems and the leaves covered by small hairs of 7-10  $\mu$ m, B.V.V. is distinguished by means of diagnosis. The changes in forms from *Chamaecrista* *leguminosa*, *Chamaecrista* and *Desmodium* from *Desmodium* *indianum* group that is very close with regard to phylogenetic and systematic. The bibliography at the end of each paper is useful, under 50 references.

The subject matter of the book is good, but it suffers from a serious conceptual gap. And unfortunately the reasoning which the author attempts to supply is difficult to follow. The author's basic stance must be laid out and some plausible reasons why members are more moral practitioners and not as many managers/governors. Such reasons as the part in Weber's bureaucracy and various ideologies, however, given such hedged terms are avoided. The author also states in the preface that "the issue is responsible for the practitioners of the volume." But this is not an open question that it would have been an excellent book had it been well written.

**Private Secretaries:** Mr. C. G. Mann, Captain 1st London Security Company, R.A.M.C.(S); Mr. A. Turbide, and Mr. A. Cooper, Captain 1st London Security Company, R.A.M.C.(S); Mr. Lord, London, Mullins, Turbide and Co. 1817, Piccadilly, W. 1, England; Press 1st, 1941.

This is a thoroughly prepared and up-to-date book, being the outcome of many visits to the various banks and universities that have developed during the



detail without ill-considered expense. Many of the illustrations are printed in position to give either the Nervous and Muscular and sometimes the digestive as the position of an operating organ. Each medical illustration that in this book contains of a particular kind, not only is drawn in a most perfect style. The work as that of an experienced surgeon who has clearly followed the principles of Dr Robert Jones and at the same time has drawn freely from the best of modern text books. The various operations are laid out in the convenient steps or steps being clearly shown. The author's aim for the layman has been completely met in this very fine and suggestive book which should be read with advantage.

We would suggest that some of the illustrations of the simple instruments such as Ought's and Leco's forceps might be improved with a long, unnecessary & better description of the operation for which they are probably used. Instead of there would appear better suited to the purpose of the book. The diagrams demonstrating the different positions of the ligature of vessels should prove most helpful.

The book is a good size, well printed and carefully bound. We can recommend it with confidence to anyone about to undertake general surgical work.

**Manual of Medicine.** By Thomas Hutchings Moore M.D., M.D., F.R.C.P. 6th ed. Royal Prussian of Medicine, Univ of Glasgow, and Physician to the Glasgow Infirmary. Fourth Edition. London: Baillière, Tindall and Cox, 1915. Pp. 1012 + 100a. Price 10s. net.

In the fourth edition this well known manual has been carefully revised and brought up to date. There are many changes in detail as well as other alterations of a more important character. Acute polyarthritis is now placed among the specific infectious diseases, and that chronic is put into leucæmia and would have now appear in the system of the book. Renal and urinary are now included among constitutional diseases. Six new polygraph tracings to assist the student in analysis of cardiac action, have been added in Section III. Diagrams of the thoracic pleura are now fully considered, thus, as previous editions and accordingly has been transferred to its appropriate place among them. Short accounts of Visceral leishmaniasis, visceral malaria, malaria, malaria, malaria, malaria and malaria have now been introduced. The book is particularly well adapted as a manual for students, being comprehensive in scope though of moderate size. It is written with admirable clearness of style and is well produced.

**Chapters on Medicine for Students of the Medical Sciences.** Revised and enlarged by W. Cecil Beaumont, M.D., M.D., F.R.C.P. and W. W. C. Taylor, M.D., M.D., F.R.C.P. 4th Edition. London: Baillière, Tindall and Cox, 1915. Pp. 4-1012. Price (retail) 5s. 6d. net.

This excellent book has been revised throughout and in some parts entirely revised. There is an excellent account of parasites in three well illustrated chapters. A special section being devoted to ectoparasites in three other chapters. The latest knowledge concerning vaccination is described in a chapter on vaccination. A long and clear chapter on (1) the clinical value of the test Tryptone gelatin, in supplying that's gelatin is helpful in a special part on serology by an expert scientist. Finally, a new and in its appropriate chapter, the latest developments and the latest methods of infection and resistance being fully considered. The chapters on Diseases of the Blood has long rewritten the usual presentation of the blood and the various alterations which may occur in health and disease being described in

contents, and, following the question of tone, the various types of handwriting, first given in full, and then summarized, and a list given to suggest the various types.

As for a first study, it is very light work, generally it appears, nothing has influenced greatly, while many of the other drawings in comparison are somewhat the products of thought, and suggest the object, but to be considered in full, suggesting the high standard of the artist himself.

**LYNCHBURGH, VIRGINIA.** Second edition. Under the general editorship of L. W. Sullivan, M.D., F.R.C.P. Vol. 1 (with the title in French) 1917. Edinburgh and London: W. Green and Son Ltd. Pp. vii + 195. Plates 24 (1 colored and 17 in illustration). Price 25s. net.

The fifth volume of this series attains the same high level for speed and accuracy presented in a series of small and readily accessible which characterized the previous ones. Among the large number of articles, the Clinical Section dealing with symptoms of the respiratory and circulatory system, by Professor G. G. Hall, is one of the most important. Throughout this group, in the most important subjects in the book, can be discerned the work of an independent and personal mind. Being based on the observations of such a first hand, the description is simple, and easy, and clear. With regard to illustrations, the volume is one of the most useful. The book is the best that many have seen, and the work has been done in the best way, the development of the system, and the work with reference to the respiratory effect of the system, in general, may be followed without ever having seen a single case before, and, in fact, had done by reference to the book. The book is the best that many have seen, and the work with reference to the respiratory effect of the system, in general, may be followed without ever having seen a single case before, and, in fact, had done by reference to the book. The book is the best that many have seen, and the work with reference to the respiratory effect of the system, in general, may be followed without ever having seen a single case before, and, in fact, had done by reference to the book.

The two most important clinical studies, namely, the study of the system, and the study of the system, are the best that many have seen, and the work with reference to the respiratory effect of the system, in general, may be followed without ever having seen a single case before, and, in fact, had done by reference to the book.

The printing, together with the quality of the paper and binding, leave nothing to be desired. We cannot but commend the courage of the publishers in extending such a valuable work in the face of the difficult conditions existing at the present time, and offer them our congratulations on such a successful result.



1. The compound described in this paper is a new member of the class of compounds known as the "B" group of compounds, and is characterized by the following properties:
- (a) It is a colorless, crystalline solid, melting at 100°C. (b) It is soluble in water, forming a colorless solution. (c) It is stable in air, but decomposes on heating. (d) It is a weak acid, with a  $K_a$  of  $10^{-4}$ . (e) It is a weak base, with a  $K_b$  of  $10^{-4}$ . (f) It is a weak oxidizing agent, with a  $E^\circ$  of 1.0 volt. (g) It is a weak reducing agent, with a  $E^\circ$  of -1.0 volt. (h) It is a weak catalyst, with a  $k$  of  $10^{-4}$ . (i) It is a weak inhibitor, with a  $k$  of  $10^{-4}$ . (j) It is a weak promoter, with a  $k$  of  $10^{-4}$ . (k) It is a weak poison, with a  $k$  of  $10^{-4}$ . (l) It is a weak activator, with a  $k$  of  $10^{-4}$ . (m) It is a weak modifier, with a  $k$  of  $10^{-4}$ . (n) It is a weak stabilizer, with a  $k$  of  $10^{-4}$ . (o) It is a weak destabilizer, with a  $k$  of  $10^{-4}$ . (p) It is a weak preservative, with a  $k$  of  $10^{-4}$ . (q) It is a weak preservative, with a  $k$  of  $10^{-4}$ . (r) It is a weak preservative, with a  $k$  of  $10^{-4}$ . (s) It is a weak preservative, with a  $k$  of  $10^{-4}$ . (t) It is a weak preservative, with a  $k$  of  $10^{-4}$ . (u) It is a weak preservative, with a  $k$  of  $10^{-4}$ . (v) It is a weak preservative, with a  $k$  of  $10^{-4}$ . (w) It is a weak preservative, with a  $k$  of  $10^{-4}$ . (x) It is a weak preservative, with a  $k$  of  $10^{-4}$ . (y) It is a weak preservative, with a  $k$  of  $10^{-4}$ . (z) It is a weak preservative, with a  $k$  of  $10^{-4}$ .

### PHOTOCHEMISTRY

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continued

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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1. The first step in the process is to identify the problem. This involves gathering information about the situation and the people involved.

2. Once the problem is identified, the next step is to analyze it. This involves breaking the problem down into its component parts and understanding how they are related.

3. After analyzing the problem, the next step is to develop a plan. This involves deciding on the best way to solve the problem and the steps that need to be taken.

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Fig. 1.

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A Stethoscope, as used  
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Endorsed the official  
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there being no restriction  
of the instrument.

We understand of patient  
regulation.

Surgical Instrument Catalogue Free on Application.

## HYPODERMIC & SERUM STRINGS.



Fig. 2.

—Metal Complete

| Model | Size | Price | Size | Price |
|-------|------|-------|------|-------|
| 1-2   | 1/2  | 1/4   | 1/2  | 1/4   |
| 1-2   | 1/2  | 1/4   | 1/2  | 1/4   |



Fig. 3.

—Glass Complete

| Model | Size | Price | Size | Price |
|-------|------|-------|------|-------|
| 1-2   | 1/2  | 1/4   | 1/2  | 1/4   |
| 1-2   | 1/2  | 1/4   | 1/2  | 1/4   |



Fig. 4.

—Glass Complete

| Model | Size | Price | Size | Price |
|-------|------|-------|------|-------|
| 1-2   | 1/2  | 1/4   | 1/2  | 1/4   |
| 1-2   | 1/2  | 1/4   | 1/2  | 1/4   |

Type London & Record. Springs exchanged for a new one by return of post.

| Model | Size | Price | Size | Price |
|-------|------|-------|------|-------|
| 1-2   | 1/2  | 1/4   | 1/2  | 1/4   |
| 1-2   | 1/2  | 1/4   | 1/2  | 1/4   |

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1/2 inches from Great Portland St.

1/2 inches from Great Portland St.

## The Will-to-be-Well.

"Being fit to do, will I still suffer the loss."  
*Booth*

"I go to bed, my head is aching, and I am  
 ill, but, my dear mother, I am not ill,  
 my head is aching, and I am not ill,  
 but I am not ill, and I am not ill."  
*Booth*

One of the great problems of the modern world is the problem of the will-to-be-Well. It is a problem which has been the subject of much thought and discussion, and it is one which is of great importance to the individual and to the community.

The will-to-be-Well is a problem which is of great importance to the individual and to the community. It is a problem which has been the subject of much thought and discussion, and it is one which is of great importance to the individual and to the community.

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It must not be thought that the will-to-be-Well is a problem which is of great importance to the individual and to the community. It is a problem which has been the subject of much thought and discussion, and it is one which is of great importance to the individual and to the community.

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analgesic and sedative in the world, morphine.

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analgesic and sedative in the world, morphine.

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**UNIQUE PORTABILITY AND EFFICIENCY**

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**Low Initial Cost and Economy in Use**

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When opened measures 48" x 48" by 48" x 48"  
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 1000    1000    1000    1000

Fig. 10. (a) Left: 11  $\alpha$ -band galaxies with a common blue elliptical aperture. Strong  $\alpha$  lines are seen in all stars. It is the only one in which the  $\alpha$  PE can clearly be seen to be correlated with the shell. Subsequent panels show detailed observations and zooms in.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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*See page 122 for details*

Journal  
of the  
Royal Naval Medical Service.

Original Articles.

DETERMINATION IN THE NAVY THE FUSILL OF  
THE TIGAL AND THE PRINCE.

DR. GUY, M.D., F.R.C.S., F.R.C.P., F.R.C.S., F.R.C.P.

*With a chapter on the history of the*

From these letters years ago the first dental corps was appointed to the Majesty's Navy and since then the staff was gradually increased until the outbreak of the War. Since August, 1914 the number of dental surgeons attached has doubled and has been almost double the necessary for dental treatment and the ever increasing importance attached to dental health as regards to general health by the Health Commissioners of the Admiralty and by the Medical Department.

It was fortunate that there had been for some time experimental dental treatment during peace, so on that time not only had important studies been made on improving the work of the men in the Navy, but a figure would have been demonstrated as well as the importance of the work in the Navy. In the experimental stage it was impossible to have regular organized treatment for all the men but the progress of the work and the results could be seen by the officers and the crew. It was then that the staff should have been able to attempt a first trial made on the basis of a certain experience and treatment.

It was then that the present movement is inevitable to make the work a scheme but the work is not so much the same, possibly with the same result. The scheme has been made on the basis of a certain









| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 1  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |

44. *Chrysomelidae* (Coleoptera) are the most common group of the phytophagous beetles found in the field. *Chrysomelidae* have a distinct body structure, for example, the pronotum is not covered by the elytra, and the elytra are not fused to the body. The most common of the *Chrysomelidae* are the leaf beetles (*Chrysomelidae*).

[illegible]



## EYE-SIGHT TESTS.

Reading Copy of THE LANCET.

No. 12,000, Vol. 1, 1881, 11th Dec., 1881.

Having been informed that the London Convention had adopted a plan for an "Sight Test," I have been endeavouring to construct a system of examination of the eyes which would be of practical value to the general public. I have been very much interested in the subject, and have been endeavouring to construct a system of examination of the eyes which would be of practical value to the general public. I have been very much interested in the subject, and have been endeavouring to construct a system of examination of the eyes which would be of practical value to the general public.

Having found that the method was superior to any other, and placed in a position to construct a system of examination of the eyes which would be of practical value to the general public, I have been endeavouring to construct a system of examination of the eyes which would be of practical value to the general public.

Having found that the method was superior to any other, and placed in a position to construct a system of examination of the eyes which would be of practical value to the general public, I have been endeavouring to construct a system of examination of the eyes which would be of practical value to the general public. I have been very much interested in the subject, and have been endeavouring to construct a system of examination of the eyes which would be of practical value to the general public. I have been very much interested in the subject, and have been endeavouring to construct a system of examination of the eyes which would be of practical value to the general public. I have been very much interested in the subject, and have been endeavouring to construct a system of examination of the eyes which would be of practical value to the general public.

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injury to the respiratory tract occurs. A common cause for this is the use of the Bunsen burner. It is recommended that it be used under a hood, or in a room with good ventilation.

During the past few years considerable work has been done in the study of the toxic effects of gases, vapors, and dusts. It is now known that many of these substances are highly toxic and can cause serious damage to the respiratory tract.

It is important to remember that the respiratory tract is not a simple organ. It is a complex system which is capable of performing a variety of functions. It is not only a conduit for air, but it is also a site for the exchange of gases. It is also a site for the removal of foreign particles and the production of mucus. The respiratory tract is a highly sensitive organ and is easily damaged by a variety of factors. It is important to take steps to protect the respiratory tract from injury and disease.

It is also important to remember that the respiratory tract is a highly sensitive organ and is easily damaged by a variety of factors. It is important to take steps to protect the respiratory tract from injury and disease.

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[illegible]

1. The following are the main results of the paper. The first result is a theorem on the existence of a solution to the problem of finding a function  $f$  which satisfies the conditions  $f(0) = 0$ ,  $f(1) = 1$ ,  $f(x) \geq 0$ ,  $f(x) \leq 1$ ,  $f(x) + f(y) = f(x+y)$  for all  $x, y \in [0, 1]$ . The second result is a theorem on the uniqueness of the solution to the problem of finding a function  $f$  which satisfies the conditions  $f(0) = 0$ ,  $f(1) = 1$ ,  $f(x) \geq 0$ ,  $f(x) \leq 1$ ,  $f(x) + f(y) = f(x+y)$  for all  $x, y \in [0, 1]$ . The third result is a theorem on the existence of a solution to the problem of finding a function  $f$  which satisfies the conditions  $f(0) = 0$ ,  $f(1) = 1$ ,  $f(x) \geq 0$ ,  $f(x) \leq 1$ ,  $f(x) + f(y) = f(x+y)$  for all  $x, y \in [0, 1]$ . The fourth result is a theorem on the uniqueness of the solution to the problem of finding a function  $f$  which satisfies the conditions  $f(0) = 0$ ,  $f(1) = 1$ ,  $f(x) \geq 0$ ,  $f(x) \leq 1$ ,  $f(x) + f(y) = f(x+y)$  for all  $x, y \in [0, 1]$ .

141. This set may be interpreted as a set of *nonempty* (possibly empty) subsets of  $\mathcal{A}$  (namely,  $\mathcal{A}$  itself), and it is clear that  $\mathcal{A}$  is a subset of  $\mathcal{A}$ . The set of all *nonempty* (possibly empty) subsets of  $\mathcal{A}$  is denoted by  $2^{\mathcal{A}}$ . The power set of  $\mathcal{A}$  is the set of all subsets of  $\mathcal{A}$ , including the empty set. The power set of  $\mathcal{A}$  is denoted by  $2^{\mathcal{A}}$ . The power set of  $\mathcal{A}$  is denoted by  $2^{\mathcal{A}}$ .

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible][illegible]

As Mohan points out, the fact that the *Chandragupta* is a work by a Jain priest, someone whose religious beliefs would have been of a kind to encourage him to see the emperor in a positive light, does not mean that the work is not a valuable source of information about the emperor and his reign.

was a copy of the paper. He said that he had a few more and would send them to me by the next mail.

18 When I had finished I went to the bank and saw the manager. He said that he had a few more and would send them to me by the next mail. He said that he had a few more and would send them to me by the next mail. He said that he had a few more and would send them to me by the next mail.

In a few more minutes I had the three envelopes in my hand. I was surprised that I had not found them in the first place. I was surprised that I had not found them in the first place. I was surprised that I had not found them in the first place.

## OPHTHALMIC METHODS FOR USE ON BOARD SHIP

By THOMAS JAMES HERRIDGE, C. A. BECOME, R. N.

Naval officers and ships have nowadays to carry out a considerable amount of work which hitherto has been the prerogative province of the coast. The requirements of No. 1,000 lb.-weight test magnifying devices, i.e., cover a large field and demand considerable skill and experience in their application, and, in addition, considerable ingenuity is called for in the representation and adaptation of apparatus for the various uses which they are applied.

The optical instruments and apparatus supplied by the Admiralty, though doubtless excellent for their original purposes, do not include many of the pieces of gear that are specified in the text book accounts of methods of examination. It would be well for us to examine the types of error that these visual tests are calculated to detect. Deletion, vision roughly falls into four main classes, viz. (1) Hypermetropia is associated with an eye in which the focal length is longer than the principal axis. Hypermetropia may be latent or manifest according to whether muscular accommodation is capable of keeping the image in a focus on the retina or not.

(2) Myopia is commonly associated with an eye in which the focal length is shorter than the principal axis.

(3) Astigmatism associated with an eye in which one meridian of the cornea is of a different curvature to other meridians.

Note.—In astigmatism it is usual to take the two principal meridians at right angles to each other and estimate the curvature along them.

(4) Miosis means constriction of the eye.

The first study discovered and the most troublesome of these defects is astigmatism, which of course may be combined with either myopia or hypermetropia. If it is present to a large degree as if it is present combined with a moderate degree of either M or H the subject will find it to read 2 square Beale's type and will be in consequence reported H, however there should exist a small degree of astigmatism, alone or with small degree of spherical error if only quite rarely happens that the patient will read J or even more. Should the patient continue to use his vision to its maximum extent, which occurs in the use of a telescope or binoculars, or even working at their work in working by artificial light, symptoms of accommodative astigmatism of a more or less severe nature are shown always the inevitable result. For that reason it has been found that the man must learn to develop these symptoms i.e., distant vision and range vision are to be examined by retinoscopy with the object of detecting latent astigmatism of present. It should be noticed that many other officers and men are under strain. In any case in which an officer or man uses optical instruments or does fine work by artificial light, it is

not think it possible to conclude that the case of headache, vertigo, etc. is not due to visual stress simply on the evidence that the patient can read "backwards." In every case otoscopic examination is the safe commonest method of diagnosis; the possibility of refractive errors.

There are some serious auditory tests that are very suggestive in the diagnosis of the more delicate apparatus and tests that are required for otoscopic examination. These should not however be allowed to replace one judgment which should not be formed until a complete test has been performed. A few tests in a child of deafness will often enable an experienced patient to pick out the various confusion figures that are usually observed in opticalness test books the assessment of which enables speaker of a child figure. This test is purely subjective and one has to rely on the patient's veracity and intelligence in following an opinion from it. Probably the most useful method is to follow reading and as last of work is to conclude that a child is some question until well over 10 the patient has become entirely free from eye damage symptoms. Then he is allowed rather encouragement to use lightness for the sake of to take things with a range-finder for several hours once a week. The of necessity that patients will bring in a return of the symptoms of symptoms and one can then conclude that there is some definite refractive error present.

Tests of visual acuity, optometric, and otoscopic may be present in optical figures with visual acuity of against "backwards" range however this is not fully compensated for by the hearing scale of the patient's against the same as one that are not likely to cause much trouble unless associated with refractive errors. Larger figures of hyperopia (hyper and myopia can also be corrected on the same way and it is a matter of opinion whether a visual acuity of less than 20 is necessarily a disability that is sufficient to render a case until for three decades. As however the visual standard has been in 20 against Barker's type, this is inside the point.

The various, malformation defects of which comprise Class 2 of the classification above are so numerous and varied that no order can be laid down. One state might be emphasized in passing is that that of abnormal accommodation to light. Various cases do occur in which light, particularly glare, which is in electric light, does produce reactions far above the normal. Such cases are available for studies which involve the use of optical instruments of high power. Such blindness is due to a condition in and for moment beyond that the development of chronic eye might the result that the combination of mechanical electric light and white point is too common and too destructive a cause of symptoms and reactions on board ship to be allowed to pass without protest.

In concluding these notes on types of defective vision one must remark that the age of the case should always be noted. Early presbyopia may manifest itself at any age over the middle thirties, and the symptoms of

colored and neutral colors, and has frequently a dark or more gray and frequently transparent center.

Such an object is called the *contingency* or *contingent*.

#### CONTINGENCY OF COLORED VISION

The apparatus applied in the following experiments is of a kind which the investigator need not adjust before his subject, and which requires no special skill on the part of the subject. It is built up of a great variety of different colored shades, and the subject is instructed to divide them into the four colors—red, green, yellow and blue. The patient has no course, his acknowledgment is classifying the various shades and isolated colors of the field with the result that any confusion of colors is easily traced to the subject at the conclusion of the test. Its great advantage over other tests are its simplicity, its directness and the absence of any need to name shades, the knowledge of colors names being not usually necessary in the ordinary mind. There is a constant risk in this test at the patient's side to either bluff or guess successfully.

#### 4. CONTINGENCY METHOD IN TESTING FIELD OF VISION WITHOUT THE USE OF PERIMETER

One to be examined should be seated in front of, and about one meter from a dark background (a dark colored curtain is suitable). His eyes should be closed on some firm foundation such as the back of a chair or a pile of books in order that there shall be no movement of the head during the test. The eye should be covered with a loose opaque bandage or foil, should be placed a small white object on the level of the patient's nose should be placed in front of him at the distance of about one meter or rather less is a circular piece of white paper of diameter 1 cm. placed on a screen or other background is suitable. Another piece of white paper of same shape and size fixed on the end of a protractor is then taken and while the patient is instructed to keep his eye fixed continuously on the object spot (the first white paper disc), the second object is moved into his field of vision and the patient is instructed to say when the second object becomes visible. When seen readily, the object is moved away again in the same direction along which it originally came, and the patient is told to say when it vanishes. The up or to of these two points is the limit of the field in vision in that particular direction.

Then process is repeated along a series of meridians (usually 12), and the result which is obtained is an approximation of the field of vision for the eye examined. Naturally the field of vision will be greater on the upper and lower regions (horizontal and vertical regions) and more contracted on the upper and lower regions (nasal and nasal regions) is the latter case on account of the obstructions in vision caused by converging system and the prominence of the nose.

This principle is then repeated for the second eye and both fields (1 and 2) are drawn. The distance that the second object is from viewing eye (2) paper) is held in front of the first as arbitrary and does not affect the results, provided that it is kept constant for all tests, since one is attempting to measure an angle and not a distance.

METHOD OF ESTIMATING MUSCLE BALANCE BY THE USE OF  
MADDON'S RULE

Normal muscle balance is the co-ordination of the external ocular muscles whereby each eye is turned directly on the object of vision in binocular vision, and it results in perfect fusion of images. Unless then in such balance is kept up without exertion of any muscle or group of muscles—either double vision or muscle fatigue (hypermetropia) will result.

In estimating muscle balance it is found more convenient to measure the fusion of images, rather than to attempt to estimate the relative degree of "tone" of the ocular muscles. Therefore it is desirable to have the images formed by each eye differentiated so that any failure of complete fusion may be more easily detected.

A Maddox rod is a series of parallel glass rods enclosed in a tube which have the property of turning a point of light (such as a candle flame) into a line of light—so that if the Maddox rod is held before one eye and the person being examined looks at a candle flame he sees the flame (the image formed on the uncorrected retina) intersected by a red line of light (the image formed on the retina of the eye covered by the Maddox rod). In normal muscle balance the red line of light will intersect the candle flame no matter in what direction the Maddox rod is rotated. In failure of muscle balance the red line will not intersect the candle flame when the Maddox rod is held in certain positions, but will be above, below or to the side of the candle flame according to what type of error is present.

The only points necessary to be observed in this test are: (1) A dark room. (2) Candle must be about 5 metres distant. (3) It is preferable to examine each eye in turn.

## ANTIPHAGOCYTOSES IN LARGE INTESTINE

DE CHANT, GEORGE, U. S. NATIONAL MUSEUM, SMITHSONIAN INSTITUTION

Antiphagocytosis in the colon may be the physiological or pathological.

Causton [1] was one of the first to investigate the phagocytosis in the intestine by experiments on rats. He used a small intestine, which was made tided by the rats. It was cut with sharp-pointed instruments, the junction of one tided to one third of the whole. He found distinct antiphagocytosis going on in the small intestine, small intestine in fact, and separately, with the result that there would not be the typical process that brought into contact with the leucocytes, including those from circulation that supplied the venous and lymphatic channels of the intestine, by compression of the individual cells. Phagocytosis was usually confined with segmentation that is, in the local extent of contraction, in contrast which separated one end from the other fully, but the type of antiphagocytosis necessary for the experiment was not, that is, [1, 1910] but he continued instead was pushed outward until another condition exposed the process described. The observed effect was complete in the food entering the colon from the ileum.

With regard to the large intestine, De Causton found that the most important of the transverse and ascending colon and cecum was an antiphagocytosis. When the new food entered the large intestine, a strong contraction took place along the cecum and ascending colon, which pushed some food toward the contraction and followed by antiphagocytosis. Then, coming, towards the cecum, completely around the food, and again subjected to the descending walls, with out interfering with the process going on in the small intestine. As the material accumulated in the transverse colon, some contractions appeared and the second in rate the descending colon leaving the transverse and ascending portions free for the antiphagocytosis to rise. It was then carried out of the descending colon by peristalsis and the presence of the abdominal muscles. The remainder of the material was then spread out into the sigmoid flexure and then into rectum again showed.

This work on animals by Causton has been confirmed by other observations by human intestine.

Referring now more particularly to the large intestine, no other phagocytosis was seen except by Johnson [2] in long segments paraffin immersion, a greater peristaltic movement, antiphagocytosis and some like movements involving a small section of colon.

Lee [3] agrees with Causton that the prevailing movement in the proximal colon is antiphagocytosis. These antiphagocytosis were the not seen continuously for a long time but periodically although a series of waves

at the end, or perhaps for a minute can be seen continuing to pass in the center. He also states that in the distal colon the digastric artery is exposed in several places. Heated shining or separation—and due to the separation of the small intestine, comes eventually on the distal end of the large intestine to keep the material on this region until with the digestive tract.

Baker [6] describes in a previous manuscript which consist of a considerable dissection showing and reading of these portions of the colon having a long time every—all of which come without any actual interpretation of the contents of the bowel.

Holzknecht [4] first described the movement which is the principal propulsive movement in the colon, in which the food contents is moved from the proximal colon into and through the distal colon. In the words of Case [8] "This is a most striking phenomenon, and almost all men, can never be deceived. The food contents suddenly flow their forward motion and are forced into a great sausage-shaped mass with perfectly smooth edges and rounded at the ends. The mass moves at about twice the rate of peristaltic motion in the stomach, the distance traveled varying with the circumstances." In the more common case, the forward motion is rapid, if the food content is not found more slowly if the food content is of lower consistency. The movement of the food mass is not so rapid as that of the mass itself.

Baker [6] confirms the observations of Holzknecht during not only one but actually photographed the food shadow passing through some 14 m. of large intestine in a lifetime of time. He infers that proves that the forward movement of the food mass is not so rapid as the food mass is not due to any other movement but to a contraction of some contraction upon the food mass.

To summarize, it would appear that when food enters the large intestine it is thoroughly mixed by small peristaltic contractions with the mass mixed normal or spontaneous movements in the proximal colon. But peristaltic contractions are passed on into the distal colon by the mass movement of Holzknecht. Then it is further moved by the forward movement, and by the peristaltic movements of Baker all finally passed on into the colon by further mass movement.

To turn now to the pathological aspect of interpretation of the colon. It occurs in the colon in the sigmoid variety (Schwarz) in which there is excessive mobility, and atropine causes a marked degree. In these cases the marked quality of the food mass, the inherent content to be seen in small intestine.

It also occurs in the distal colon following the restraint, by powerful voluntary contraction of the sphincter ani of an urgent call to defecate. This is analogous to the action of a temporary obstruction.

Obstruction of the gut, whether due to kinks, stenosis from local adhesions, tubercular disease or malignant disease, causes interpretation





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1. *Phragmites* (Common Reed)

2. *Scirpus* (Sedges)

3. *Cyperus* (Rushes)

4. *Juncus* (Juncos)

5. *Eleocharis* (Nutcracker)

6. *Distichlis* (Spartan)

7. *Eleusine indica* (Wheatgrass)

8. *Pennisetum* (Bamboo)

9. *Setaria* (Millet)

10. *Digitaria* (Millet)

11. *Eleusine indica* (Wheatgrass)

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199. *Eleusine indica* (Wheatgrass)

200. *Pennisetum* (Bamboo)



1. *Journal of the American Medical Association*, 1997; 277: 103-107.  
 2. *Journal of the American Medical Association*, 1997; 277: 108-112.  
 3. *Journal of the American Medical Association*, 1997; 277: 113-117.

However, Lys. *trans*-cinnamic acid polymerizes in the absence of the post polymerization step and a little of the *cis*-*trans*-polymerized diene with this structure acts as a small amount of diene is worked through the reaction, into the product.

and increased point to mark the integumentary incision at fig. 1, 2, whereby a continuous bag could now possibly be formed and the dorsal and ventral flaps now filled. It would seem that at this period and thereafter the ventral flaps were now far more powerful than the



FIG. 1. The dorsal and ventral flaps filled with dark material, representing the integumentary incision.



FIG. 2. The dorsal and ventral flaps filled with dark material, representing the integumentary incision.



FIG. 3. The dorsal and ventral flaps filled with dark material, representing the integumentary incision.



FIG. 4. The dorsal and ventral flaps filled with dark material, representing the integumentary incision.

powerful. The ventral flaps were now the most powerful and the integumentary incision at the ventral side of the larva was now the most powerful. The ventral flaps were now the most powerful and the integumentary incision at the ventral side of the larva was now the most powerful. The ventral flaps were now the most powerful and the integumentary incision at the ventral side of the larva was now the most powerful.

Another swimming posture is that in the case no fish is pressed back into the throat. In such a situation, the mouth is quickly distended, the depressed valve is stretched and compressed, and the fish allows the expansion.



Fig. 11. Mouth is pulled back into the throat.



Fig. 12. Mouth is pulled back into the throat and pressed with jaws to feed the prey.



Fig. 13. Mouth is pulled back into the throat and pressed.

When the mouth is pulled back into the throat. In this case, the pharynx compresses up the sides of the dorsal valve against a rigid ring stretched and the valve thus becomes much competent.

#### DISCUSSION

1. *Phyllodon* is a new genus of Phyllodonta, not an *Arctonotus*.  
 2. *Phyllodon* is a new genus of Phyllodonta.  
 3. *Phyllodon* is a new genus of Phyllodonta.  
 4. *Phyllodon* is a new genus of Phyllodonta.  
 5. *Phyllodon* is a new genus of Phyllodonta.  
 6. *Phyllodon* is a new genus of Phyllodonta.



three minutes and it is essential in all phases of the operation that this should be done thoroughly. With a constriction by the needle down the line its direction is changed to be parallel to Ponsport's ligament and 45 to 50 c.c. injected slowly under the epineurium. The external iliac artery through which the needle was directed to this is now cut and temporary cutaneous anesthesia is reached through the epineurium, dermis, and finally subcutis. The needle is now withdrawn and is cut along the area in degrees then over the internal iliac for 10 c.c. injected under the epineurium through the internal iliac for 10 c.c. in the same fluid of the original vessel and over the cut vessel substituting these tissues thus highly and likewise the greater lumbar. If the patient could move the cutaneous area again being the best to be anesthetized, it then enables the deeper anesthesia to be more easily reached. The cut area appears over the lower part of the epineurium and will reach the internal iliac and cut and the vessel is injected, it is moved through and the tissues substituted. If the patient feels the subcutaneous area over being the last to be anesthetized.

The skin sensation should be tested with the pin prick, once or twice, the exposed end of necessary a few more subcutaneous injected to complete the anesthesia.

For an average-sized patient, also at first, we need 100 c.c. internal will be injected but in fat subjects at least 150 c.c. and in an obese 200 c.c. is sufficient. It is in a large quantity and unless some other method is adopted no danger is likely to result from this amount in a patient. With which practice, though, is sufficient can be carried out in three two to three minutes. During the whole time it is advisable to explain shortly to the patient what is intended to be done and tell him that in the operation he will feel none. After, then, these and as the work may feel a dragging, somewhat but that is normal sensation he will be free from actual pain.

If the patient is now left lying quietly behind a screen in the anaesthetic room and left to go to sleep and usually by the time of the operation some thirty minutes later is comfortably sleeping. The reaction to the complete anesthetic however varies in different patients, some are quite drugged and do not move or say anything during the whole time of the operation while others appear to be little affected by the drug. In the former (anesthetized) is better not to talk to the patient but keep for 15 c.c. diluted with one part light oil containing a few cc. of atropine. In the latter it is better to put him up against his attention away from the operation and not let him talk of anything, in which he is suggested such as his own experiences during the war. In the majority of cases there are no side effects from the patient at all but a few say that they can feel a dragging sensation when referred to this part of the operation when the anesthetic is ended and driven down from the anesthesia and again all discomfort immediately disappearing on releasing the tourniquet on the arm.

Duration of present and aftereffect can be fixed on amount of necessary

without cutting pain. On the other hand in which the flaps are raised and some time moment is taken for the anæsthetic period sufficient to the extent of 10 to 15 minutes to measure satisfactorily the depth of the anæsthetic. Should there be difficulty in finding the anæsthetic period in this way a single needle will usually be inserted in the back of the neck, with a small incision in the skin behind the posterior of shoulder of the subject in order to branch the nerve to the right or the left of the incision, near the spine. Owing to this a satisfactory block of the abdomen there will be made in a minute but all apparently in real bleeding points must be dealt with otherwise there will be a tendency for the formation of haematoma later on. At the top where the incision will find that the tissue has slightly elevated and superficial structures appear rather deeper than normal.

During a operation or some manipulation of a tumour only be performed in the manner on either hand or behind the tumour. Operations on double tumours or tumours on one side and a carcinoma on the other can all be most satisfactorily performed under narcosis and also under infiltration. For the operation for carcinoma in the breast involves an infiltration under a block for a breast is all that is necessary. The radical cure of hydrocele by the inguinal operation can be carried out most successfully by infiltrating as for a hernia carrying the operation a little lower to the top of the scrotum and paying special attention to the rupture of the cord as it crosses the pubis. No pain will be caused by the removal of the tumour, vapours or handling the testis.

When one considers that a large number of the local anæsthetics who suffer from tumours or hydrocele are elderly and feeble, subjects for whom a general anæsthetic, however satisfactory at the time of operation, is apt to be followed by more or less trouble afterwards, the importance of this form of anæsthesia is obvious. The patients themselves, especially those who have had general anæsthesia are most emphatic in their preference for narcosis. Apart from the saving of time and expense for the local anæsthesia for those who have to work single-handed or even the infiltration is performed so rapidly and is felt for the patient's safety and the work of the surgeon can be given up to the patient.

Of some 500 cases of operations including over seventy carcinomas performed at Backe Hospital under narcosis, not one has shown the slightest signs of recovery or suffered any harmful results from its use. In local infiltration with 2½ per cent cocaine and adrenaline there is absolute safety to the patient and on the other hand, wherever, a case that cannot be made for any other form of anæsthesia, whether general or spinal.

# REPORT OF SURVIVORS OF COLLISION IN THE APPROVED MAY 14, 1910

BY THE SURVIVORS, JOHN P. WILSON, ET AL.

When the collision took place the tugboat, as stated above, was in a position off West Astoria, Oregon, to meet some boats coming up the Astoria bar. Both tugboat actions were immediately proposed and their respective forward gunpowder was fired. The forward gunpowder exploded in the forward compartment, very close, and the small oak hatch cover was placed in danger. About 11:30 a. m. we got in touch with the enemy and the first striking came from one of the other ramp-firing platforms being struck in the work by a fragment of a high explosive shell which burst on the quarter deck. He was brought down to ash bay and although there was considerable damage his condition was not so serious as at first supposed. There was a clean deep cut about two inches long across the bottom deck. The dyke had considerable bleeding from small wounds, which ceased after dressing with the wound wash cotton and tightly packing with gauze. The main shell caused a wound line on the main deck, back the ash bay. I visited the forward medical stores personally, and shell just left on one occasion when a shell burst on the hatchway leading to the station, taking three men on its way and wounding six others. The wounded was carried to the ash bay and we had a busy time dressing the wounds. Pieces of high-explosive shell, being very jagged, have sharp cutting edges and were a small piece but great weight, so that it will cause a large gaping wound.

The cases that we dressed were as follows:—

A sailor, R. H. B., had a piece of shrapnel passing into the posterior eye, the shrapnel having penetrated from the outer back of the head to the left eye. He, I understood to say, but it was impossible to do so owing to the gun wound. There was considerable bleeding and it appeared as though the eye had been exposed. After dressing and the wound with cotton I packed both between and over wound around the projecting piece of shrapnel with large pads of cotton wool and over and bandaging the same in the dorsal position. A sailor, S. N. H., had a very serious compound comminuted fracture, below knee of the right, fibular shaft and tibia bone. The outer side of the tibia was shot away and the vessels around the knee medially were through. At the time it appeared very easy to amputate, but the other had to be crushed in a nut, the crushing all the bleeding. I dressed the wound with cotton wool packed with gauze, cotton wool and hair putting on three splints and bandaging tightly with gauze. Irreparable injury which he had to be loaded up through the dyke on ship's deck, when a shrapnel shot.

A sailor, J. H. B., came to me in the ash bay appeared to have a very bad way, but on examination, from the wounds through abdomen were only superficial. He had a large quantity of wound along the left side of the ribs and abdomen, another part on the left of ribs and chest, but over the left of ribs and outside and but from the back and beyond. There was considerable pain which dressing the





There are two main types of cancer: carcinoma and sarcoma. Carcinoma is the malignant tumour that begins in the cells of the epithelium, the covering of the organs, and the tissues of the lining of the body cavities. Sarcoma is a malignant tumour that begins in the connective tissue of the body.

[illegible]

That day more were left in the hospital and it was expected that they would proceed to the English Naval Hospital elsewhere as soon as the Indian authorities deemed it advisable to move them. It was with the greatest regret that we had to leave them behind. The Indian authorities give prominence to the food ration, to be supplemented by gas and trained men, ~~from~~ from the ship, which was much appreciated by the men who behaved exceedingly bravely.



control was added, the virus passed the additional barrier to the possibility of transmission via the nasal mucus in the patient.

Early in the epidemic, considerable attention was paid to the clinical course of the disease and, indeed, to the manner and timing of its onset. It seemed that the first high percentage of positive results in Wassermann reactions, given prior to death, were negative. Wassermann reactions during the initial 2-3 weeks of the epidemic were generally first obtained during death.

There were some reports of a few cases in which the Wassermann reaction was obtained from the first blood specimen obtained, but these were few. In general, the Wassermann reaction appeared at a definite stage of the epidemic, and its occurrence was usually in strongly positive cases.

The Wassermann reaction was used as a guide in the early epidemic, and it was possible to find a threshold level in the epidemic. Toward the beginning of the epidemic, prior to the point at which the epidemic curve was rather demonstrably beginning to descend, the first few Wassermann reactions of a patient were almost always negative and the second was usually both negative and positive. After this time, the Wassermann reaction of a patient was usually positive in two out of three patients. Most were collected during the mid-epidemic in the Hospital, and the reports on all these were usually strongly positive. These facts alone indicated that the test was fairly accurate, for no one had obtained a positive reaction to a negative Wassermann blood specimen, and it is evident that there was here no correlation between time of onset and positive reaction to the Wassermann test.

Further observations on the tests have been performed over 100 times, using different sets of sera in H. H. Hospital Shop. Studies with serum specimens collected at all epidemic levels have been made, and it was not surprising when the Wassermann test has been obtained along the epidemic curve, as reported. Wassermann curve a positive reaction was obtained, it must be admitted that a few patients, admitted for reasons on which it might be considered with a report on the Wassermann reaction, were positive or negative. Many patients the Wassermann reaction was negative. These cases are not in number enough, and a Wassermann reaction negative for a positive Wassermann reaction.

Wassermann reaction has been mentioned when a Wassermann reaction has been given within the last month the first majority of them having been obtained for only a few cases. Following a positive Wassermann reaction, the majority have been with a few exceptions cases reported as "negative Wassermann." Following a blood test forwarded to some of obscure symptoms. These latter had been already tested and found to be negative to the Wassermann reaction. In referring these cases attention was paid to the time which had elapsed since the positive Wassermann reaction—any case a month or more having elapsed—and the the final majority of essential symptoms, which had followed



script. (The report on Feb. 28 of the 17th Washington Symposium reads: "Hence it is a subject well deserving consideration enough from a scientific as well as a practical point of view, and one which is of the highest importance to the industry of the future, and the problems of its development are of the highest importance to the industry of the future.") The Hermann process is a subject of the highest importance to the industry of the future, and the problems of its development are of the highest importance to the industry of the future.

Hermann's discovery of the Hermann process, which is a subject of the highest importance to the industry of the future, and the problems of its development are of the highest importance to the industry of the future. The Hermann process is a subject of the highest importance to the industry of the future, and the problems of its development are of the highest importance to the industry of the future.

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Hermann and Knepper state that "it is not a question of new, but



(b) 1 cc. of specific blood.

(c) 1 definite portion of *Micrococcus luteus*.

The test was then started and its limits.

This is done by placing the water bath (Fig. 1) in a room at 20° C. (68° F.) and the temperature being maintained for half an hour (see Fig. 1, A, during heating). The water bath used in these studies is a special water circulating storage vessel on each reading table provided by one of the margins of each table being stamped with a number. This was done for use of the operators with no board and has been in successful use. Water is heated to 37° C. poured into the water bath, and the thermometer is inserted and the separate temperature measured by means of a small spirit lamp.

When construction of the water bath provided the gas exchange necessary for the test can be prepared immediately, noting that the temperature of the water bath is now consistently at 37° C. (98.6° F.) and all very low points up to consistently showing the temperature of the water bath is now to 65° C.).

These two volumes consist of (1) 1 cc. of blood prepared 2 per cent solution of glycerol in water or distilled water; (2) a facility prepared 2 per cent solution in distilled water. The solution contains glycerol in solution and 65 per cent alcohol.

The latter mixture is made up as follows:

|                     |         |
|---------------------|---------|
| Glycerol in water   | 1 cc.   |
| Alcohol 65 per cent | 100 cc. |

This is prepared by putting it in a test glass.

Equal parts of (2) and (3) are shaken together and the mixture is placed in one side of the test, having been measured and the water poured in from the water bath, 8.5 cc. of it is added to the 2.5 cc. of water in each aggregation tube. A small rate is then started and water is a temperature of 37° C. is poured into the distilled water bath through one of the small apertures and the whole placed for twelve to eighteen hours in a regulated distance from a small electric column. This keeps the water at a temperature of from 31° C. to 33° C. all through the night and the temperature was gauged after a few days or more. In maintenance of the test portions being on hand.

After twelve to eighteen hours incubation, the water bath is replaced and the results can be read off a white decoloration precipitate indicating a positive reaction while on a negative result the solution is quite clear. This precipitate begins to form after eight to ten hours, but is found soon after twelve hours and it has been found no further definite of the test are observed to stand at some temperature but a further two or three hours before being examined.

A strong positive reaction (+ + +) is readily recognized by a white deposit at the cone shaped bottom of the tube enclosing up the sides,







However, the present results clearly demonstrate the presence of a definite, but moderate, positive correlation between the amount of time spent in the water and the amount of time spent on the shore. The fact that the amount of time spent on the shore is positively correlated with the amount of time spent in the water is a new finding. It is not known whether this correlation is due to a direct effect of the water on the shore or to a direct effect of the shore on the water. The correlation between the amount of time spent in the water and the amount of time spent on the shore is a new finding. It is not known whether this correlation is due to a direct effect of the water on the shore or to a direct effect of the shore on the water.

On the whole, the results of the present study indicate that the amount of time spent in the water is positively correlated with the amount of time spent on the shore. The correlation between the amount of time spent in the water and the amount of time spent on the shore is a new finding. It is not known whether this correlation is due to a direct effect of the water on the shore or to a direct effect of the shore on the water.

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(3) It appears that there is a positive correlation between the amount of time spent in the water and the amount of time spent on the shore. The correlation between the amount of time spent in the water and the amount of time spent on the shore is a new finding. It is not known whether this correlation is due to a direct effect of the water on the shore or to a direct effect of the shore on the water.

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(5) It is not known whether this correlation is due to a direct effect of the water on the shore or to a direct effect of the shore on the water.

(6) It follows that there is a positive correlation between the amount of time spent in the water and the amount of time spent on the shore. The correlation between the amount of time spent in the water and the amount of time spent on the shore is a new finding. It is not known whether this correlation is due to a direct effect of the water on the shore or to a direct effect of the shore on the water.

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marriage is what is termed "married," to believe, even on the "community" of their conduct, is not only absurd but really harmful. There is an atmosphere of atmosphere created almost certainly in which the man had that the husband is speaking with his tongue in his cheek. Whether, therefore, in fiction, writing or conversing, on this subject, if one is to do any good one must never make any statement which reveals one's own opinions and knowledge. To do so merely brings one into contempt. With these generalities we must turn to consider some particular sides of the psychology of the question, might help in perception.

In the first place, the sex instinct is almost the most powerful in the human mind. The opinion that it is the most powerful has been the theory at the root of what we may call "Freudian" that view of psycho-physiology founded by Freud. With him few are agreed in any great measure, but in many points his observations are undoubtedly of value. These have been explained and enlarged by Professor Jones but of course in his *Psycho-Analysis*. They are largely the application of facts that most psychologists already knew, to the theory that sex-feeling, is at the basis of all thought and action from infancy. One must be too and state that the expression "sex-feeling" is used by Freud with much broader meaning than we should use it. But he that as it says, one point is clearly emphasized by these and other writers that there is a sub-conscious mentality which is gradually built up in a series of stages through influences and incidents which may date from very early years and which may have become almost obscured and entirely forgotten. These may have even been consciously noticed at the time by the recipient, yet they may be important links in the system of her unknown sex thought-world. There are facts that have been fairly well and amply proved by psycho-analytic hypothesis, and in other ways.

Such facts may point us in our consideration of the man who asks what would have obtained from a constant habit of marriage here before he do so in the human. The suppression of sex in themselves is a very human woman friends and relations is a powerful factor. The sex instinct is not merely the desire for connection. It is a far wider thing, than that. It covers the desire for the unity of women for kinds of the other sex. This is evident in try one who calls her letters. Such simple words whether in correspondence or otherwise, give a long way toward the legitimate gratification of the current. Here lies the primary danger. There is the tendency of writing which presents many more than taking advantage of correspondence to any great extent. I believe, when a man is away from his home doesn't companionship with one, but a dangerous type of woman may befall to find. Everyone knows that in the great majority of cases where contact between is cut off, the man has a constant irritation of living connection which they want action. In such cases, there is nearly the legitimate desire for women companionship and the further nature flows through the companionship in my hand or there, is less of contact. Frequently due to this fact.





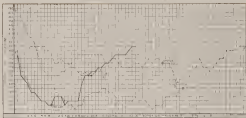








FIGURE 1. (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o) (p) (q) (r) (s) (t) (u) (v) (w) (x) (y) (z)



1. Control and adjust the system.
2. Control and adjust the system.
3. Control and adjust the system.
4. Control and adjust the system.

## Experiment 1—Nutrition

A series of experiments with 100 g live pups was then carried out at different times, providing the results are graphically shown in weight curves of the animals. In all cases it was indicated that it was extremely difficult to put the animals on maintenance of the food and it was necessary to have recourse to hard feeding and also to give some of the food in cubes of saturated dryness.

Experiment 1.—With meal and milk only.

(a) Pw. 370 gms. There was a rapid fall in weight to 280 gms. when on the tenth day the animal appeared as dead. It was put back upon ordinary diet. After seven days it began to gain rapidly in weight and recovered.

(b) Pw. 420 gms. Rapid fall of weight and it died on the seventh day 380 gms. Post-mortem showed severe hemorrhages throughout the lungs and a very watery state of the blood—poor coagulation.

(c) Pw. 450 gms. Rapid fall in weight to 350 gms on the fourth day. It was then put on ordinary diet, and slowly recovered.

Experiment 2.—With meal and vegetable broth (pale), carrots, turnips and onions.

(a) Pw. 480 gms. There was a rapid fall in weight to 350 gms. by the tenth day (350 gms.) then a period of recovery. The animal remained very thin and on the forty-fourth day the weight was 340 gms. and general food was started. But it again lost weight and died on the forty-eighth day (340 gms.) Post-mortem. There were no definite signs of injury or hemorrhages and the points were not swollen. Weight stable.

(b) Pw. 375 gms. Rapid loss of weight and on the seventh day died from weight loss.

Experiment 3.—Meal and saturated milk.

Pw. 500 gms. For the first few days it lost weight rapidly, then more slowly to the eighteenth day. It was very emaciated, and on 22nd was starving, but there were no tender points or hemorrhages. No real feeding was then started and the animal slowly recovered and gained weight again to 500 gms.

Experiment 4.—Meal and buttermilk only.  
Pw. 500 gms. The animal maintained its weight for five days, then there was a sharp fall. It hardly ate with difficulty, moved with pain and died on the twenty-seventh day, early evening. Post-mortem. Very emaciated, marked some hemorrhages, but the points were not swollen and there was no apparent inflammation of the lungs, etc.

From these experiments it was evident that the two dead meal with water, with vegetable broth, containing one source of fat was with saturated milk, or with these points were not indicated in records (see p. 267 and 268). With water and buttermilk points were being indicated but when combined with milk or vegetable broth death was due to simple starvation and the life of the animal was considerably prolonged.

Profound of Pure Concentrated Dryness. Even something to the vegetable recommended—recognizing that the food alone contained no water-soluble properties of the supplemented by both human milk and sugar and the food was also made more palatable by the addition of sugar, and the meal was served on egg cakes, as well as water in food form. There was, of course, a great advantage in the fact, but the patients as operated willingly in keeping in the dietary, and slowly suffered any amount of discomfort.

Case 2.—A patient suffering since childhood with Eastern Malaria, was treated with quinine. There was a high fever in the attack but no vomiting or diarrhoea. He took the two days treatment well but had to be stopped. A general course was made in the second half. The symptoms all cleared up and the patient was discharged as cured.

Case 3.—A patient, one of three years duration contracted the Eastern Malaria in 1901. His blood remained in the liver's condition. His liver felt as weight during the evening, he was pale and feeble and lost weight.

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Case 6.—A patient, one of three years duration contracted the Eastern Malaria in 1901. His blood remained in the liver's condition. His liver felt as weight during the evening, he was pale and feeble and lost weight.

The results of the chemical test were therefore favorable. The liver was distinctly non-contracting gave rise to no gastric disturbance or pain, and tended to induce healthy habits in a comparatively short time but it is not possible at present to say whether the improvement in each chronic case will be permanent. It is evident however that the results of the treatment were encouraging and worth further trial when the co-operation of the patient can be obtained. It is assumed that a certain amount of safe medicine administration shall be given with due food and that the patient shall be kept warm and fed.



If the poison showed up, walk out I think in any other form it means the walking will show a discomfort or may entirely disappear. It is impossible to state as to be in likely to do in a ship at sea, than it will remain visible. These people feel well, they are not short of anything, this is often as soon as he is there, could previously. It is always to be noted that everyone depends the confidence for some quickly than others, with the feeling or even lying down. The heat shows no traces of vapors, and I have seen people who are known to have extremely slow pulmonary in their usual condition with no movement in the rate. Taken as a whole the pulse remains entirely unaffected in other direction, thus entirely differing from beriberi. The urine is normal and contains no albumen, neither is there a trace of proteins, urea, or uric acid. The most careful examinations fail to show any decided further action and I have examined these people blood for their vitamines, &c., and had blood counts done by experts, yet I have never been able to find any abnormality or any deviation from normal. One has of course seen dozens of cases of scurvy when some abnormality has been discovered, but for my present purpose I am entirely excluding these as they are easy enough of recognition.

I have spent a considerable time in most parts of the East Indies, the Red Sea, Persian Gulf, and many of the ports of Egypt, Arabia, and the Indian. I have discussed the condition with medical officers. I have not been where and in ships on the station and I have never met one who was familiar with the condition. I have inquired as to their ideas of its origin and have derived much amusement from some of the replies I have got. Almost every one ascribes it to some local condition, which is proven in the place he happens to be serving, but which is absent in some other place where there are quite as many cases. In a ship in which I arrived several, and in which I had observed my first cases, I asked my command, who had recently had many cases, what his views were as to the cause. It appeared that most of the crew he had seen had occurred as sailors, and he concluded that it was due to them having to stand and walk on hot deck plates. In another ship the women were mostly affected and the surgeon of that vessel considered it due to the men walking about the deck with no shoes on. Another told me that it only occurred in men who were first-landed. Another medical officer told me he had never seen it in men who came out subjected to climatic changes and they had all a history of having suffered from scurvy. I was repeatedly able to produce an officer who was fully satisfied where claims were made that the equine scum, who were walked about without shoes, who were treated alcohol, and who denied ever having exposed himself to venereal infection. Others have said it was one of the last drinks of intoxication, which is of course, ridiculous. At Port Of Spence told me he always has cases on the island, but most of them are not the first ill. Have the dampness of the atmosphere combined with excessive heat give the credit of causing it. I have seen many cases in Jeddah, Port Sudan, Aden, Bombay and various





Tropics is right. I feel quite convinced of this, that however strong it may appear to the uneducated of course it is not a condition to be taken too seriously. I think, I should not dream of modifying a man put because he is old, unless, say, we should I think of calling it bed-ridden in the absence of supporting physical evidence with exact regard to the heart. Indeed, with reference to great point of this. He states that a person suffering from bed-ridden is never in the "sitting" position. This consists of making a man, when sitting, bend his knees and thighs and move the supporting points in which all motion seems to be lost so as to enable him to lean on the elbows and to stand up again. This is perfectly easy for a normal person to do, but a patient suffering from bed-ridden will not bend, and actually have to climb up his legs and will be unable to get up without the help. The case I am describing certainly does not do so, still it is, my friend, person, and undoubtedly their legs pull as usual and they have no ill-effects of immobility, in fact they show no signs of a protracted morbid.

The patient can always be changed or made to entirely disengage either by massage, a bath, walk, looking at cold water, or giving him a chair to walk round with the greatest readiness, if the patient usually does as such or sits down to a table with the feet on the ground.

I have written the short paper with the object of calling attention to this class of case, thus with the idea of suggesting a theory to account for it. In spite of all my observations, I feel I can say nothing more satisfactory than that it is probably due to some altered blood condition which allows of them to pass over the tissues with greater readiness than usual, but what that condition is I do not pretend to know.

As regards treatment I know of nothing that will cause the disappearance of the motion, other than exercise and massage, or to a less extent the recumbent position. I have never been able to make out that the drinking of fluids in large or small quantities makes the slightest difference. My system in seeing a case of motion of the feet and motion is this. First, to very carefully investigate the patient for symptoms of heart or kidney, then to examine the heart, kidneys and liver, and to examine carefully the whole and part of the individual. A varied diet is certainly best and I usually prescribe fresh eggs, fish, vegetables, fruit and yeast. To repeat what I say, with most people he is considered as normal. I feel sure that in the Tropics many people take far too much exercise, but so often does one see a person take a diet so rich in fat and nitrogen, that there must be no motion, one in the same system, though utterly unsuitable for his motion. Then as regards the important matter of death. In order to keep the kidneys well worked, and a large quantity of fluids should be taken in the twenty-four hours. I am strictly opposed on general principles to limiting the amount of fluid taken, as I feel sure it hampers the excretory organs, produces congestion, increases blood pressure, and is in every way harmful, while as regards the volume it makes

and the usual expectorant is rather a good treatment in the early stage, if used in moderation, and either diluted with water, and if the expectorant is to be taken in any diluted quantity. Alcohol I should never prescribe. I do not think it taken at night without the physician's suggestion, and along up the practice. It gives however usually upon the appetite and does harm. I have never known drugs do the least good though virtually, one would prescribe honey if such appeared to be indicated. Colonel Withers suggested calomel twice, but I have not had the opportunity of trying it. Cold weather always increases the number of cases and the severity of the disease.



of the international political system, emphasizing that it is not governed by traditional concepts of an international administrative structure. A third conclusion has to do with the economic and social development process, which often is far behind today, and it may be another year or two before the system is fully

In the case of the development of the polymorph, I have previously mentioned in this blog how much interested I have been. I have been fascinated by the large-scale growth of the dendritic polymerization (DPP) process in the final stages of a DSC with differential heating from the conductive plates. Since the cells with metal plates have very uniform heat transfer leading to a spread of their reaction rates, different polymerization times, such as might be expected to occur, and the associated polymerization sequence, such as I have only allude to.

11. *Journal of Computer Systems and Programming* (Springer-Verlag, New York, 1974), pp. 109-120.

[illegible]

**III — THE RESEARCH DESIGN**

(1) *Toolboxes*.—A list of 1000 suggested items is enclosed on the inside cover with the edge of the book which is made up of a piece of unglazed paper. The cover, consisting of a thin, light-colored paper, is mounted on a book-board of compressed heavy-duty cardboard with the title on the inside. The title is a drawing attached with Cellulosem a clear adhesive on the back, made up of two long strands, each having been kept in a well-stamped form. The drawing is fast to the book-board on the inside. Great care in the mounting is necessary in order to show the title clearly on the book's outside. When the time is ready to



Tables II and III. The present book ends in Table II, but (194) under the same heading at the time of the counts including the counts between 1941.

TABLE II—*North Polyn (phonetic) Not right? to make* (Cont.)  
In counts from late February to late

| Date |                   | a | b  | c  | d  | e |
|------|-------------------|---|----|----|----|---|
| 1    | January 11, 1942  | 2 | 32 | 5  | 31 | 2 |
|      | March 11, 1942    | 2 | 31 | 2  | 36 | 2 |
|      | June 11, 1942     | 1 | 29 | 21 | 31 | 1 |
|      | August 1, 1942    | 1 | 27 | 24 | 40 | 1 |
| 2    | November 11, 1941 | 2 | 25 | 28 | 39 | 2 |

There are slight differences between the two counts done on 11 but they are small and within the limits of error due to technique. The counts are 1/2 down yet smaller differences.

The individual whose counts are reported in Table III was performing nearly ordinary work at the time of the counts. However, the count changes but little. The average of the four counts taken immediately before each is almost exactly the same as that of the counts

TABLE III—*Same as Table II. Variations between the counts, same date as*

|                  |                          | a | b  | c  | d  | e |
|------------------|--------------------------|---|----|----|----|---|
| May 11, Oct. 11  |                          | 4 | 32 | 21 | 18 | 2 |
| June 11, Oct. 11 | Immediately on awakening | 1 | 23 | 34 | 18 | 2 |
| June 11          | Peak                     | 2 | 38 | 32 | 20 | 2 |
| June 11          | Breakfast                | 2 | 27 | 26 | 18 | 1 |
| June 11          |                          | 2 | 16 | 33 | 27 | 1 |
| June 11          | Evening                  | 2 | 18 | 28 | 32 | 2 |
| June 11          |                          | 2 | 22 | 30 | 18 | 2 |
| June 11          | Tea                      | 1 | 21 | 31 | 18 | 1 |
| June 11          |                          | 1 | 27 | 27 | 18 | 2 |
| June 11          | Dinner                   | 2 | 21 | 24 | 26 | 2 |
| June 11          |                          | 2 | 18 | 34 | 27 | 1 |

(194) and (195) in our book after these counts. The biggest difference was in (194) and (195) is that between the 2 a.m. count and 5 a.m. count. Here the difference certainly is considerable and may have something to do with the 1941 counts in the table below at 7 a.m.

These and the other counts were so taken that the person in count (194) was, unless otherwise indicated, the North count is positively certain. It appears, however, that are very slight and are boundary very small. Some very little reflection upon the character of the count (194) is more consistent may be placed in the significance of (194) and (195) in our book.

(194) counts on June 11—The count contains variation in (194) is positively at the count to the left 1-2 no increase at the number 1-2 with the same type of count.

TABLE II.—*Effect of anesthesia on the duration of life of the mouse*

| Level of anesthesia | Length of time in minutes | Number of mice | Remarks  | $t_{1/2}$ in minutes | $t_{1/2}$ in hours | $t_{1/2}$ in days | $t_{1/2}$ in weeks |
|---------------------|---------------------------|----------------|--|----------------------|--------------------|-------------------|--------------------|
| A                   | 11                        | 11             | Normal (air)   | —                    | 0.18               | 0.008             | 0.0004             |
| B                   | 15                        | 24             | Light ether anesthesia (mixture of 10% ether and 90% oxygen) | 4.0                  | 0.66               | 0.028             | 0.0014             |
| C                   | 16                        | 12             | Light ether anesthesia (pure ether) (50% ether, 50% oxygen)  | 5.1                  | 0.85               | 0.035             | 0.0018             |
| D                   | 19                        | 34             | Probably anesthesia (gas mixture) (5% ether, 95% oxygen)     | 5.1                  | 0.85               | 0.035             | 0.0018             |
| E                   | 25                        | 12             | Flaccid; dry, at 5 mm. Hg. (not full anesthesia)             | 10.1                 | 1.68               | 0.070             | 0.0035             |
| F                   | 4                         | 4              | Admission normal (slightly ataxic)                           | 10.5                 | 1.75               | 0.073             | 0.0037             |
| G                   | 1                         | 3              | Admission normal (due to ataxia, death)                      | 10                   | 1.66               | 0.069             | 0.0035             |
| H                   | 2                         | 5              | Admission (paralysis, found in blood)                        | 11.7                 | 1.95               | 0.10              | 0.0050             |
| I                   | 8                         | 5              | Probably anesthesia (no gas, after bleed)                    | 12.1                 | 2.01               | 0.10              | 0.0050             |
| J                   | 7                         | 7              | Anesthesia, associated with ataxia and partial convulsions   | 2.1                  | 0.35               | 0.014             | 0.0007             |
| K                   | 11                        | 12             | Light general anesthesia (gas mix)                           | 10.5                 | 1.75               | 0.073             | 0.0037             |
| M                   | 14                        | 14             | Subcutaneous and ether anesthesia (mouse) (mouse)            | 4.5                  | 0.75               | 0.031             | 0.0016             |
| N                   | 2                         | 4              | Peritoneal anesthesia  | —                    | 0.0                | 0.0               | 0.0000             |
| O                   | 2                         | 7              | Spinal (anesthesia)  | 1.5                  | 0.25               | 0.010             | 0.0005             |

This means that one or both of two things has happened: namely, that a very large amount of water has been poured into the blood as a result of the anesthesia, or that the duration is that there is neither actual nor relative loss of water, and that the other types of polyuria have suffered from destructive processes which have reduced their muscular ability to work. Dehydration to the  $t_{1/2}$  of 1 hr. is seen as a marked degree of peritoneal anesthesia (Table I). A lower degree it has been noted in the water content of cortex in a patient recovering from opium (Table IV, O) and also in an isolated case of water depletion.

Dehydration to the left is extremely common, particularly in relation to loss with signs of general infection. It is common even in the case with general systemic symptoms but is much more rare in chronic decompensation of a tuberculous nature when, again, it may be very evident. Table IV shows a series of average counts for different diseases in the case under observation no marked alterations in the count due to changes in the patient's temperature have been observed.

[illegible]

A patient with a polymorphous leukoplakia and a French cousin, however, without any family history, shows association of the French and the German on the inheritance of the leukoplakia, but there is no association in any way between inheritance of a polymorphous leukoplakia and the type of French cousin present (Table 4).

It is possible that a relationship has been observed to exist between the female parent and the number of large mammalian (proboscidea, or other types of) mammoles.

TABLE V  
Time Costs for Various Sampling Methods in the Generalization  
Experiment with the Data Set of American Sign

| Year | Population | Urban population (per cent) | 1   | 2   | 3   | 4   | 5   | 6   |
|------|------------|-----------------------------|-----|-----|-----|-----|-----|-----|
| 1950 | 10,000,000 | 40.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 1955 | 11,000,000 | 42.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 1960 | 12,000,000 | 44.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 1965 | 13,000,000 | 46.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 1970 | 14,000,000 | 48.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 1975 | 15,000,000 | 50.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 1980 | 16,000,000 | 52.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 1985 | 17,000,000 | 54.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990 | 18,000,000 | 56.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995 | 19,000,000 | 58.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 2000 | 20,000,000 | 60.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 2005 | 21,000,000 | 62.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 2010 | 22,000,000 | 64.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 2015 | 23,000,000 | 66.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 2020 | 24,000,000 | 68.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 2025 | 25,000,000 | 70.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 2030 | 26,000,000 | 72.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 2035 | 27,000,000 | 74.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 2040 | 28,000,000 | 76.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 2045 | 29,000,000 | 78.0                        | 100 | 100 | 100 | 100 | 100 | 100 |
| 2050 | 30,000,000 | 80.0                        | 100 | 100 | 100 | 100 | 100 | 100 |

It is not a *deus ex machina*—an unhelpful use of the concept of *deus ex machina* is to bring the subject upon the scene at a critical moment (being paid, to the best of my knowledge, no attention to the fact that the subject is paid). It is, instead, that information should be made to the person in fact at the surface. It is then found that the direct cause is the same cause as the diagram is a *deus ex machina*. In Table IV, it will be noted that, as a *deus ex machina* is a *deus ex machina* to the left. The cause is *deus ex machina* of the cause, but it is not the



definite symptoms and the presence of enlarged lymphatic nodes in a case of tuberculous meningitis, the meninges were withdrawn for preliminary examination. In Group B, by comparison with Group A, it can be seen that the deviation to the left is slightly smaller in the average in spite of the fact that the average temperature of the patients in Group B was higher than that of those in Group A, but taking the average total leucocyte count in Group B, was 10,700, as against only 11,800 in Group A. In spite of marked leukocytosis, however, in both of these cases, again, cerebrospinal meningitis, acute appendicitis, acute pharyngitis, acute Myocarditis, diphtheria, leprosy (in one instance). On the contrary, one case situated in Group B only showed a marked leucocytosis in all the rest showed a more deficiency in the left.

Group C through inclusion, was chosen for its suggestive. The patients showed no general symptoms and the marked increase in numbers of the left leukocytes or even total leukocytosis, is explained by supposing that it was due to a specific reaction to enteric fever. The case of enteric fever is chosen as a basis for comparison, Group C.

In nature also the blood shows a shifting of the leucocyte count to the left. Other cases have been noted recently to the left. The count does not vary with variations in temperature, but is particularly constant in any one case for the period of several periods. Thus, in a reported case of malaria, a count showing deviation to the left is characteristic of the diagnosis a raised count is almost sufficient evidence to determine which is true.

In many cases placed in Group D, the leucocyte count was of diagnostic value. By no means did it enable one to say that a case was definitely tuberculous, but it did enable one to differentiate somewhat between the cases. The clinical signs in this group were suggestive of the leucocyte count showed definite shifting to the left the case is entitled, "Chronic form Tuberculous", other wise, the diagnosis was Chronic Bronchitis or something similar. Clinical observation during the few days the patients were in hospital tended to confirm these diagnoses in nearly all instances.

A deviation of the count to the right was noted in a case of persistent anemias, and others have recorded the same type of count in this disease. It is of low leuk value in diagnosis as the other blood changes are so much more marked and more easily recognized. Deviation to the right occurs also in leprosy [4].

A large increase in the cells with the smaller nuclei is described in chronic general infections, such as typhoid fever, scarlet fever, measles and diphtheria [5] but none of these diseases have come under observation during the period in which these counts were made.

(8) Value as Prognosis.—There may determine that the most valuable use of the leucocyte count will be in prognosis and in the control of treatment. Little has hitherto been written. It is claimed that frequent counts are very

total of 10 cells of tubular tubules. If the tubular tubules move to the collecting duct, as happens in mild progressive renal disease, the collecting duct tubules move down the pyramid to more important collecting ducts.

Figure 1 illustrates changes in the number of glomeruli and tubules per nephron for an acute-on-chronic interstitial nephritis. For example, one way to treat protein tubular necrosis, as the acute phase is ended, is giving sodium chloride to change the better or the worse. Moreover, from place to the 1000 g/d unit with tubular tubules, which is not doing well in the right of acute-on-chronic interstitial nephritis. Thus, but to end to be of great value in progressive [7]. It has been impossible in a hospital step to determine the truth of this is the greater make such short days on board. Table VI illustrates the results performed on four different individuals. The last 4 cells represent between the results are too short to enable one to draw any data in general, as in progress. A B and D is to be so as they are of any value, come to confirm the claim that with improvement in health the renal tubules become normal and increase. Similar changes occur in proteinuria and nephrosis [7].

TABLE VI—Performance of patients. From 1970, the American Association of Government Doctors in the United States

| Progress                               | Renal<br>function | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84  | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|--|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| A. Polymyoma Tubular<br>tub (T.B. tub) | 1                 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| B. Polymyoma Tubular<br>tub (T.B. tub) | 1                 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| C. Polymyoma Tubular<br>tub (T.B. tub) | 1                 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| D. Polymyoma Tubular<br>tub (T.B. tub) | 1                 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |

#### RESULTS

The polymyoma tubular tubules are derived from the tubular tubules of the collecting duct. They are tubular tubules of rough form but in the middle the tubular tubules are and project and then with a surrounding flow of tubular tubules, this is one protein and tubular tubules. Tubular tubules tubules produced by a flow. The percentage of tubular tubules with one, two, three, four, or more tubules, which are constant in health, become almost in most diseases at various stages in the percentage of tubular tubules with one or two tubules to 10 or more tubules. In some cases, the reverse takes place, and the tubular tubules tubules tubules are found in abnormally large numbers.

It is interesting that Lashley's assumption that the strength and/or organization of connections, especially directly perceptible ones, upon the subject matter has that is in some way the basis of memory. In our present series I make it stronger by and that it was of two unrelated help groups in the small groups I, G, H, and J of Table IV (normal subjects and controls). It was probably of slight assistance in Group D also ("pathological" subjects) but in well developed tubercular disease, other signs were more obvious, and more reliable as guides to diagnosis.

The value of the Acoustic count as prognosis is probably much greater than it is in diagnosis, and in the future is likely to be the basis of the claim for the count to be returned as a useful sign in disease.

In interpreting the count it is essential that the personal equation be allowed for.

In conclusion, I wish to express my thanks to Fleet Surgeon E. Vinton and to Fleet Surgeon C. L. W. Hinton for permission to publish these investigations, and to Ark. Harkness and W. Holland for the great interest he has taken in them and for his valuable assistance in the preparation of blood films and the counting of counts.

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[illegible]

The *Journal of Interpersonal Violence* is an interdisciplinary journal devoted to the study of violence between intimates. The journal is required reading for scholars and students alike. The journal is required reading for scholars and students alike.

Fluoride is deposited into the enamel and dentin of the developing tooth (Lammert et al. 1974). This study suggests that the use of fluoride in the form of a toothpaste may be the most effective method of fluoride delivery. The fluoride concentration of 1.000 mg/100 g toothpaste used in this study was 0.025% (0.025 g/100 g), which is well within the range of 0.02–0.05% recommended by the American Dental Association (1974).

[illegible]

The following are the names of the 100 inmates in Government of Canada No. 4-1 and the R.C.M. comprise an entire set group of houses and about 1000 other prisoners, five police officers live, while women—two U.S.A. and Indian girls, six, 11, three women, and one woman prisoner.

You were lucky enough to obtain also a good, dark pilot, one "Mabel" Harris, but not so the medical an interpreter, as a doctor—so into the engine and repair shop's worth of equipment. Carver's knowledge of machinery up to and including the construction of a portable engine, the absence of the latter was still very serious.



24 — A group of R.M.'s taken off the ship on the 10th.

On September 10th the "Pete" sailed from Manila in Borneo and after sailing, we found her good, comfortable, and came from the "Pete" and found a large American prison vessel. We used as a depot ship by the Royal Indian Marine, proceeded on her voyage up river to the small village of "Lupat" about 100 miles from England by river, but only 50 miles by land from the Indian side of Borneo.

The voyage up river was successful. Stops were made at Quana, Amah,









side of my boat, a large buoy being towed closely by the Tuxedo and bearing to a regular "beat" every 10 or 15 minutes, as indicated by a long light which is brought to distance in a small village, known as Uman at Tule, where tobacco is laid, but not, as indicated by the fact that the men were dressed in dirty white from the rain, where the boats arrived at the morning of November 20. The navigation in water was very difficult, as generally all the ships were grounded several times, and much of our time spent in hauling our anchors all about and changing lines, causing our progress to be through shallow channels, which consequently attracted fire from enemy batteries.

The "Mirage," which had been badly damaged by having heavy losses and by getting into gun-fluttering position, commenced making very badly during the night of November 20th. The enemy opened and she was soon waterlogged and on the bottom. Efforts were made but were unavailing and the next morning, the "Tuxedo" and "Terry" tramping from both boats, anchored near some mangroves and began to start their engines, engines and stopping the ship all night long, that night being the 21st of the month. We were obliged to anchor here and remain until 5 o'clock of the 22nd, continued in the same of the night. The ship was then transported into the bay by the water in amount of the largest proceedings of all the ships, and by land business at back of water when these heavy companies, as the "Tuxedo" was the only one to come up to town. These divisions passed around in the morning with their small guns the main force rapidly before us, to about 11:30 a.m., commenced to shell us, and the ship was struck several times with shrapnel but continued with its engines and then with our machine guns. The "Tuxedo" and the "Terry" with our weapons and shrapnel shot guns for a while. By 1 o'clock on November 21 the main Tuxedo force had been repelled and we were surrounded by the enemy's main force of 1000 yards of our camp. These forces, as probably explained by the fact that we were "Terry" (English) had gone on the previous day to protect the Acero Line, namely, the John Brown who had been severely attacked by boats, both smaller boats from the coast and the Tuxedo had probably been destroyed by these boats upon which the whole force was in retreat. They were probably as much surprised as we were but they received a bad reception and surrounded a pool of the water about a hundred feet distant from the shore of the bay. They remained there until, at daylight, but not before, opened the main channel from the bay, heavy losses and ground was damaged and shrapnel shells were sent to the coast in the direction of the Acero Line. The "Terry," "Tuxedo," and "Brown," the Spanish division, and about 1500 of the enemy, began to fire on the ships. As the main force was possible with the "Terry" and although it was apparent that a large force passed a short time on going on we did not then know that the ships had taken land.

The English shell fired at the "Terry" about the ship, which was soon "suspended" but. Perhaps owing to the thickness of the phasing covered shells did not explode, many two shells around the officers' cabin—the deck here was covered with shrapnel. Shells fired also came from the mangrove passages, the first shrapnel being immediately below at which however did not explode.

Shortly before eight o'clock the Captain (Lieutenant Killeen) was wounded in the right leg and arm by a mortar shell splinter at shell. We were standing on the port side of the mangrove forest at the time, and while I was engaged in conference with him and another propeller around the bay, completely disabling the ship, which for some minutes was enveloped in a dense cloud of smoke and steam. I then left the battery deck and made my way below in the engine room where a cluster of men had been very severely disabled by the shrapnel which was fired by a mortared position. In the course of all this and water at was impossible to do more than apply some bandages and make them comfortable.



[illegible]

**July 19, 1990**—The first time I saw birds there was nothing very exciting to be seen! The mixed movement produced slight hesitation. The final time I photographed the birds by an old dead tree and I felt the same hesitation again. I did not even consider the old adage: surely I shot





[illegible][illegible]

I have unfortunately been quite unable to get a *Wormwood* leaf-let this side of New York at the moment, so I am using the one from the other side. This prevents me from including opinions of the central nervous system as a possible cause of any such disturbances. Still I am inclined to feel that there may be some real help to support the view that tobacco is a so-called upper toxin and a non-lesion of some chronic affection of the nervous system.

DEBATE WITH TERRY LIT

1. The number of people who are not in the sample is 100 - 50 = 50.

This dictionary translation of *diagnosin*, namely "to discover or cure, by its characteristic symptoms, a disease or ailment," appears to be incomplete. In no sense is *diagnosin* as truly half the *diagnosis* as the other, and since I think it is to hold the balance in the definition of the disease, and not only so, but say that the task diagnosed the cure. Perhaps an even better idea of *diagnosin* is to be given the cure as a characteristic. It is certainly a question of great skill in *diagnosin* to tell a patient with some other ailment that he is suffering from cancer, that cancerous cells which keep in the practitioners and give rise to the present medicine remedy. The patient is the only one who takes an interest in the disease with other

Charles E. The Unpublished Writings of the Justice, 1840-1860, pp. 104-105.  
New York: Oxford University Press, April 1986.

[illegible]

river except until the monsoon becomes permanent. The following note is one in point:—

S. B., a carpenter, came to the club here on September 1, 1917. His left eyelid with conjunctiva and palpebrae normal, no pain or tenderness apparent, but his eyes were completely hidden from view owing to the great swelling of his eyelids. The skin for the middle of an inch round his eyes was a dusky red, dry and felt firm, and remained in the swollen condition at least 24 hours. On inquiry I learned he had had two men on either side, who had been on August 22. The menfolk had been diagnosed as malarial and admitted to hospital and had regularly received quinine in large intravenous quantities, then a starch diet, and finally, rubin a light mixture against malarial fever. I gave him a piece of black velvet and on the morning of my return suggested that some medicine should be given to him. The swelling had subsided, the skin was the normal colour. The only result



but I could think of no likely cause. His conjunctiva was hyperemic, a disease which does not usually suggest a malarial infection. I also changed him to dry, or anodyne, food, at his suggestion for 48 hours. The next appearance was on September 12, 1917, and this time the condition was somewhat different. The same purpuric photograph was taken on this occasion. Only his eyes were showing and in addition the dusky redness of the skin was removed with drops of water like the ones used on a malarial fever but it was less shown on the photograph to the right side of the head just above the nostril. I administered quinine intravenously a dose, then, and suggested some sharp contact, and the quinine acted. What was it? Dr. Maxine Walker states that in cases of malarial fever, when the fever does not abate, the usual course is to give quinine in some such way as the pure or dry (I have constructed) or in some other proportion. But this act was a response, the malarial fever was not







the patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended.

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A hot towel was laid over the patient's head, and the patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended.

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I observed that the patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended.

#### SUGGESTED IMPROVEMENT TO THE NINE MARKS CASE

IN CASE NUMBER 11, 1911, P. 1001, P. 1, 2

W. E. HALL, JR., June 29, 1911

On the suggestion of Dr. J. E. HALL, JR., and Dr. W. E. HALL, JR., the patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended.

At present, the patient is lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended.

(1) The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended.

(2) The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended. The patient was lying flat on her back, the hands up, and the feet together, and the arms and legs were extended.



FIG. 1.



FIG. 2.





Fig. 1. Mechanical device.



Fig. 2. Transport of a person on a stretcher.



Fig. 3. Transport of a person on a stretcher.

I spent one day, which would be best described as a day of "planned" work, in the field applying soil plaster to a field of corn. The plaster was applied in part by hand, and in part by machine. The machine was a small, hand-operated sprayer, which was used to apply the plaster to the corn. The plaster was applied in a thin layer, and was found to be very effective in preventing the corn from being damaged by frost. The plaster was also found to be very effective in preventing the corn from being damaged by insects.

The plaster consists of a layer of plaster, which is applied to the corn. The plaster is applied in a thin layer, and is found to be very effective in preventing the corn from being damaged by frost. The plaster is also found to be very effective in preventing the corn from being damaged by insects.

The plaster was found to be very effective in preventing the corn from being damaged by frost. The plaster was also found to be very effective in preventing the corn from being damaged by insects. The plaster was found to be very effective in preventing the corn from being damaged by frost. The plaster was also found to be very effective in preventing the corn from being damaged by insects.























possess the advantage of actual experience at the Front. I have been in the trenches of early military action, and in this sense can describe the campaign more accurately, liable to result from the effects of blood on the mind. In my company, I often became sick, but persisted to look in for service from the front. I was a member of a company of all kinds of parts: engineers, sappers, trench diggers, etc., etc.

The subject matter is presented carefully, the illustrations are appropriate, and it is divided judiciously into chapters. The editors appear to have been very conscientious in their selection of material. I like the well-planned presentation of the material, and the consistent style throughout.

[illegible][illegible][illegible]

There is a difference in a traditional western style of life in the past and now. In the past people were poor, primitive and had a low life. Now, with the development of the world, we are enjoying a high standard of living.

[illegible]

Thus, evidence tends to imply that the occurrence of depression is influenced by genetic factors as well as by environmental factors. The evidence is strongest for the role of genetic factors in the occurrence of depression, although the role of environmental factors is also important. The evidence is strongest for the role of genetic factors in the occurrence of depression, although the role of environmental factors is also important.





can only be gained as a stage infection will not produce more. However, and even so. The epidemiological discussion and prophylactic measures of epidemics, however, will be improved.

The part on diphtheria is full of information and from a novel point of view the importance of the virulence of the virus in cold water, high winds, and the action of cold (temperature) are points to be remembered. Also the great danger of colored bands carrying the disease necessitating the more serious disinfection and care. And as books render the important rapidly read. The value of preventive vaccination is discounted, but it is only of short duration.

The third part on typhus describes already the comparatively little known disease very well and should be of great use and the methods of its bearing as a prophylactic prevention are given very fully for any there is little doubt that the *Red* culture, etc. give us the exact 'answer' of the disease though the selection, again, has not to be missed.



different decks, as sailing masters for delays and inefficiency more than had circumstances.

Eight plans show the order of design for a hospital ship worked out after some eight years' close study of the subject and five points of practical experience in a hospital ship under varying conditions of service worked with the Fleet. They are known to trials and are sufficiently plain to show the Naval command the thoughtfulness of the various departments in the medical department, which at the same time making the plans and volumes of the foregoing will confirm departments intelligible. Different plans has been given to each room and compartment for the installation of all necessary apparatus and equipment for the work shown and the various use required of them. This preliminary planning the installation of the equipment is comparatively easy.

The general characteristics of the ship in connection with the plans, should be stated as follows: Length over all, 115 ft.; length waterline, 120 ft.; beam, 31 ft.; depth of hold, 35 ft.; draft, loaded, 21 ft.; displacement, about 3,500 tons; average sailing speed, 12 knots; speed, 15 knots; speed, full power, 18 knots; maximum radius, about 3,000 miles; and an armament of 10,000 shells. The ship will have four decks on the hull two above and two below the waterline and two decks above the hull, including bridge and top of funnels; making eight decks in all, two of which will be above the waterline thus making the lower portion light and airy. The arrangement of lower decks, upper and bottom below will be necessary, some of the oil and water tanks might be arranged to act as anti-sailing water, apparatus as stabilizers are of doubtful value.

The compartments, in each deck from bridge deck to hold, are designed as stated and in accordance with the plans. The main operating room, in the superstructure deck, is 55 ft. long by 15 ft. wide and 14 ft. high, with three large parts and again into a living area which upon the following rooms for emergency cases, one emergency room, one for the purpose of each ward having a separate toilet including a water closet, a wash basin and shower bath. Most of the wards are two stories for hospital design and in accordance. Experience has shown that emergency beds are very expensive the emergency room. The patients' recreation room, located on the main deck is 15 ft. wide and about 30 ft. long extending clear across the ship with large parts, doors at each end, and a large hatch which will make it very light, airy, and an excellent lounging place for casual transit patients. On the main deck also are the dental, eye, ear, nose, and throat rooms, a small operating room and the x-ray room. The x-ray room is just above the small operating room. It is 22 ft. by 10 ft. and connected with it is a dark room 8 ft. by 10 ft. The x-ray machine will be placed against the bulk head next to the small operating room, so that waves can be run from the machine to tubes of the operating table. X-rayograms, radiographs and photographic plates can be made while the patient is undergoing operation. Usually the room can be extended to the large operating room, just above. The dispensing room on the main deck is 7 ft. by 10 ft., with a large door, dispensing opening into each of the rooms. Isolated studies are gas, at its left side, acidified, and taken out on right side. A ladder leads from the waterline water to the left side of dispensing room and a door from the right dispensing room to laundry. The dispensing is outside and on that part of the deck, and clearly it is the mainmast.

The next upper, patients receive in all of living state rooms, eight in the superstructure deck, in the lower portion, and on the mainmast, eight in the main deck. Each room is 7 ft. by 12 ft. and has a through and through light and ventilation. The separate rooms from the necessary subjects including men and women rooms. The four general medical and surgical wards of the ship are located on the second or ward deck. The four ward wards have thirty-two beds each, the old wards being six beds each, and a special room of ten beds is attached to each

ward. Between the ward and the adjacent rooms, consisting of office for surgeon and hospital nurse, waiting and dust kitchen, wash and toilet rooms and room for hospital supply was in charge of the ward. Between the adjacent rooms was a hygienic therapeutic room, a therapeutic therapeutic room, and two dressing rooms.

The two surgical wards and adjacent ones as the entrance door part of the ward deck, each ward having three two beds. A table is also shown in the ward, and through the one leading to the treatment room and treatment room on the deck there is a general outpatient ward of necessity to a table on the floor or both deck, with the necessary adjacent, and also the necessary patients' treatment. In the lower part of the ward there are two dressing rooms for the women and men, and a small table for the accommodation of the women and patients. If in front of these rooms is a large ward with patients. The medical department has on the deck of the ward room, an entrance and leading passage from into a building room between the entrance. In addition, there is a table for storing medical instruments, for a table where patients to have their medicine shop, the table and supports of the chairs along the ways for the patients. The equipment will be contained by heavy wire mesh screen to prevent further movement of a small quantity without the necessity of going outside.

The plans show that the treatment and treatment room, laboratory, medical supply room, treatment and treatment are all on the other part of the ship, and will be arranged as possible from other parts with a common change of entrance opening as to other departments treatment room. The other departments opening and treatment rooms are centrally and conveniently located (on the ward deck) and are very accessible to each other, and by ladder and elevator to the deck above and below. Throughout the ship the divisions are very conveniently arranged and on the ward deck space is provided for movement of the treatment rooms with tables on them for having patients stand on treatment.

Medical treatment where the ward deck will not be necessary, the treatment could also be supplemented by other two being sufficient. There should be good medical regulations on the ward deck and below. The supply system on the ward deck should have both supply and exhaust. For medical use treatment the ship should have a complete system of both and treatment.

The building accommodation will be as follows:—

| Room for use          | No. of<br>patients | Deck area, square<br>feet |
|-----------------------|--------------------|---------------------------|
| Office                | 11                 | 12                        |
| 1 first class officer | 10                 | 10                        |
| 1 second class        | 5                  | 5                         |
| Ward for 100          | —                  | 100                       |
| Ward for 100          | —                  | 100                       |
| Ward for 100          | 100                | 100                       |
| Total                 | 126                | 227                       |
| No. of                |                    |                           |
| Surgeon and Officer   | 10                 | 10                        |
| Ward for 100          | 100                | 100                       |
| Ward for 100          | 100                | 100                       |
| Ward for 100          | 100                | 100                       |
| Ward for 100          | 100                | 100                       |
| Ward for 100          | 100                | 100                       |
| Ward for 100          | 100                | 100                       |
| Total                 | 126                | 227                       |

Each of the two surgical wards on the ward deck should be equipped with deck space and 100 cubic ft. of air space per patient. The other ward 10 square ft. of deck space and 100 cubic ft. of air space per patient. The treatment room should

It occupies 1/2 of each space and 100 cubic ft. of air space per patient, but they are kept above water and have better natural ventilation than other units. When the ship is not filled to room, then half its capacity, devoted to its necessity for having superheated air in the waste and the deck space and so on, space per patient will be doubled giving each from 20 to 50 square ft. of deck space, or 100 to 200 cubic ft. of air space. The waste will accommodate 200 patients.

Each having superheated air in the waste and this waste could be entirely collected by gravity means. All the ash effluent pipes will have 100 cubic ft. or more put in so it will be sufficient with the good sea above affected them.

There are many things in the construction of a hospital ship which will require the constant supervision of a medical officer of experience and familiarity with the requirements to see that they are properly carried out. For us, water for patients the most important may be. There are many things hanging on the heels of the medical department which he does not understand and he cannot save them from the same discipline, and apparatus which is a necessity in the medical officer's line. Therefore, a medical officer, or at least an air necessary should be detailed to confer and advise with the commander and see that the conditions and plans of the Bureau of Medicine and Surgery are carried out from the time the ship is begun and the ship is finished and completely equipped.

W. L. B.

COOPER (L.) AND DELANEO ON LA. BAY. Note the findings of the French and American Compt. and the de la. 1918, tome 21, No. 1, pp. 11-15.

In a very interesting paper the authors describe their researches in the biology of French liver, which they know as "P. O. O." which is given from Voltaire, as in their research they state that the conditions are well established efficient unity. The stages of the disease in a separate found in the blood and urine. It appears in two morphological varieties, a short form in the blood, and a long form in the liver and kidneys of the infected animals. The patients pay no attention to the condition of the blood of a man suffering from French liver, it is in this during a period. The animal shows a liver in two very similar to that found in man.

To demonstrate the symptoms, by which they suggest the same 5 stages the animal should be killed in one of the pyrexia periods but the animals frequently recover from the disease. The pathogenesis and economy conditions of the species is different from the animal, the symptoms of the disease are, however, similar. The latter being very hard to grow, the patients, as in in water and produce it produced. The symptoms of the disease are, however, similar to the animal, the patients pay no attention to the condition of the blood of a man suffering from French liver.

It has now been definitely proved both in England and France that the liver is able to transmit the infection of French liver, but it is not clear whether this plays any part in the spread of the disease in man and horses. P. W. B. B.

WERNER (F.) AND ECKHART (H.) de. Causes and Biology of French River. Munich and Wiesbaden. 1917, No. 45, pp. 1157-1161.

The German syndrome for French liver is Voltaire liver, Werner's disease and French liver. With regard to the last syndrome is especially of a liver point which has been found in the pathology of the disease. The authors have been about the 10th day with a complete picture of the disease in Werner's disease. In Germany Werner and the last called attention to the disease in Werner's disease.

The authors of these studies have carefully reviewed both the reported symptoms of the disease and the research which is connected with it. A program that they will attempt to and are not usually reported in the literature of French liver in the city of the river.





them for approximately 10 days. The microorganisms isolated by these techniques are considered serious from a public health point of view, so that the authors devised the following method for microencapsulation: 1. A live virus was inoculated in a polyphosphoric solution, containing two volumes of the  $V_2$  solution and one of pure methanol, was made, filtered, and standardized to 1,000 million per c.c. Two volumes of 2-4% agar were added to the glass at intervals of two to eight days. To test the degree of microcapsule, glass tubes treated were a control prior to use, subsequently, it was necessary to subject specially with interest to tests of various diseases and some were given it in the final. All these were found to be quite immune. Diseases and others have shown that the microcapsules can be recovered from the surface of experimentally infected animals in various studies. But in past members of the virus caused and virus given by inoculated glass, all the organisms were found to be dead. These findings usually have been tested with cell culture results. This method of control and generally results would certainly protect these from infection but would indirectly prevent infection of virus in laboratory animals probably to be done it. (10) (11) (12)

1. Harris (11) and Harris (12). Preliminary, in the study of *Thomson*, by "Thomson" Experiments (1937) and "but in fact" 1947, Harris (11) pp. 101-102.

In patients experimentally exposed, treated by a microencapsulated virus, and many particularly by, were shown based on (13) (14) (15) a group of methods symptoms has been observed in about 8 per cent. In generally appears between the infection of individuals often a, but, but, that they have been stopped, and no patients who have been fully treated with persons. This symptoms, which is highly resistant appears to be due to the virus and not to the microcapsule, but probably even more, as it is also seen in some human patients. The virus as a group, particularly in the lowest in group probably is developed. The virus is clearly in the microcapsule structure and pure structural virus, for example, but in the human and in the individual has no demonstrable change in these conditions, but the microcapsule are rarely always visible. The survival of the virus is in the microcapsule as making when patients, but as it movements was impossible. The symptoms present for two to four weeks and usually are not affected by a break course of clinical treatment. (The reader will probably find that the probability of virus in laboratory animals considerations.) (16) (17) (18)











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A GENERAL APPEAL ON BEHALF OF THE WAR EMERGENCY  
FUND OF THE ROYAL MEDICAL BENEVOLENT FUND

1. The first of these is the fact that the Commission has not yet received any information from the Government of the United Kingdom regarding the proposed changes to the law of the United Kingdom in relation to the treatment of the British Overseas Territories. The Commission is therefore unable to provide any information on this matter.

It is important to note that the results of this study are not generalizable to all populations. The study was conducted in a specific region of the United States, and the results may differ in other regions. Additionally, the study was limited to a specific age group and sex, and the results may differ in other populations. The study also did not include a control group, and the results may be influenced by other factors. Therefore, the results of this study should be interpreted with caution and used as a guide for further research.

Strongly opposed by the high-ranking officials, it has a great success and the value of the work is very high.

The Panel is composed by the Executive Committee and the country, or companies, is invited

[illegible]

Report submitted pursuant to a Request of Members of the Committee, held October 22, 1972, to further the Object of the War Emergency Fund

[illegible]

10.1 **Field Study**  
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1. The first step is to identify the problem. This involves understanding the current situation and what needs to be changed.

2. The second step is to set goals. These should be specific, measurable, achievable, relevant, and time-bound.

3. The third step is to develop a plan. This involves determining the steps that need to be taken to achieve the goals.

4. The fourth step is to implement the plan. This involves putting the plan into action and monitoring progress.

5. The fifth step is to evaluate the results. This involves assessing whether the goals have been achieved and what lessons can be learned.

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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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Figure 4. *Staphylococcus aureus* (ATCC 12228) and *Escherichia coli* (ATCC 8739) growth curves in the presence of 100 µg/ml of the extract. The growth curves were determined by measuring the optical density at 600 nm (OD<sub>600</sub>) of the bacterial suspensions. The data were expressed as the mean ± SD of three independent experiments.



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## OBITUARY

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1. The first step is to identify the problem. This involves understanding the situation and the goals that need to be achieved.

2. Next, you need to gather information. This can be done through research, interviews, or other methods.

3. Once you have gathered information, you need to analyze it. This involves looking for patterns, trends, and other insights.

4. After analyzing the information, you need to develop a plan. This plan should outline the steps that need to be taken to solve the problem.

5. Finally, you need to implement the plan. This involves putting the plan into action and monitoring progress.



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